

SX-100™

SX-200™

# SUPERSWITCH

VOLUME II  
(GENERIC 216)

8507



VOICE COMMUNICATIONS

(818) ~~555-7951~~

(626) 821-4800

**SX-200**

**WARNING**

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. As temporarily permitted by regulation it has not been tested for compliance with the limits for Class A computing devices pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

**SX-100**

**WARNING**

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

PN 9110-097-002-NA



CLASS OF SERVICE OPTIONS

COS DEFINE  
 DIAL COS NUMBER 1-16  
 TO CHANGE ANY OPTION FOR A COS 1-16 PRESS  OPTION DIAL OPTION NUMBER 33-101 PRESS  ADD TO ENABLE OR PRESS  DELETE TO REMOVE

REPEAT FOR EACH OPTION IN THE COS

OPTION NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	OPTION NO.	OPTION NAME
77																	77	MESSAGE WAITING APPLIES
78																	78	ROOM DO NOT DISTURB ENABLE
79																	79	CALL HOLD AND RETRIEVE ACCESS
80																	80	ROOM STATUS APPLIES
81																	81	CALL FORWARDING SYSTEM INHIBIT
82																	82	ALARM CALL ENABLE
83																	83	TONGED ACCOUNT CODE ENTRY
84																	84	NO SMOR RECORD APPLIES
85																	85	SPEED CALL TABLE 187 ACCESS
86																	86	SPEED CALL TABLE 384 ACCESS
87																	87	SPEED CALL TABLE 588 ACCESS
88																	88	SPEED CALL TABLE 788 ACCESS
89																	89	SPEED CALL TABLE 988 ACCESS
90																	90	SPEED CALL TABLE 1188 ACCESS
91																	91	SPEED CALL TABLE 1388 ACCESS
92																	92	SPEED CALL TABLE 1588 ACCESS
93																	93	SPEED CALL TABLE 1788 ACCESS
94																	94	CANNOT DIAL A TRUNK AFTER FLASHING
95																	95	INCOMING TRUNK ROTARY DIAL ONLY
96																	96	ARS RESTRICTED
97																	97	EXTERNAL CALL FORWARDING ENABLE
98																	98	TRANSFER WITH PRIVACY
99																	99	HANDS - FREE STATION
100																	100	ARS ALLOWED
101																	101	EARTH GROUND BUTTON

PRESS  ENTER  
 TO ENTER ALL INFORMATION IN THAT COS AFTER ALL OPTIONS IN THAT COS HAVE BEEN CHANGED

TO REVIEW THE OPTIONS WITHIN A COS  
 COS DEFINE  
 DIAL COS NUMBER  
 OPTION  
 NEXT  
 NEXT

NOTES  
 YOU CANNOT CHANGE AN EXTENSION OR TRUNK IF THE EXTENSION OR TRUNK IS BUSY, HAS MESSAGE WAITING OR DO NOT DISTURB SET. IT ALSO CANNOT BE CHANGED UNLESS MESSAGE REGISTER IS CLEARED.







# NON DIAL-IN TRUNKS

TO ENTER TRUNK PROGRAMMING PRESS

IF TENANT SERVICE IS IN USE  
ALL ENTRIES MADE ARE ASSIGNED TO THE TENANT NUMBER DIALED

TENANT NUMBER	EQUIPMENT NUMBER DIAL 10-112 OR 162-256 (SEE NOTES 1, 2 AND 7)	TYPE	DIAL 1, 5, 11 OR 51	LDN NUMBER	DIAL 1-4	DAY NUMBER	DIAL #0-#3 OR *1-#12 OR 1-112 OR 161-256	NIGHT 1	DIAL #0-#3 OR *11-#12 OR 1-112 OR 161-256	NIGHT 2	DIAL #0-#3 OR *1-#12 OR 1-112 OR 161-256	BUSY LAMP NUMBER	DIAL 1-200	DELETE	ENTER
292							#0	1	#1	2	#2		173		

NOTES:  
 1. EQUIPMENT NUMBERS 162-256 APPLY TO SK 200 ONLY  
 2. ONLY EVEN EQUIPMENT NUMBERS MAY BE ASSIGNED TO TRUNKS  
 3. TYPE 1 - STANDARD BOWTWAY CO TRUNK VNI  
 TYPE 5 - STANDARD BOWTWAY CO TRUNK VNI  
 TYPE 11 - STANDARD BOWTWAY CO TRUNK VNI  
 TYPE 51 NON DIAL IN IN THE TRUNK INON COI NON VNI

4. 0 - CONSOLE ONLY  
 #1 - CONSOLE AND NIGHT BELL 1  
 #2 - CONSOLE AND NIGHT BELL 2  
 #3 - CONSOLE AND NIGHT BELL 3  
 #4 - CONSOLE ONLY  
 #5 - CONSOLE AND NIGHT BELL 1  
 #6 - CONSOLE AND NIGHT BELL 2  
 #7 - CONSOLE AND NIGHT BELL 3  
 #8 - CONSOLE AND NIGHT BELL 1  
 #9 - CONSOLE AND NIGHT BELL 2  
 #10 - CONSOLE AND NIGHT BELL 3

\*1-#12 ASSIGNS THE TRUNK TO THE TRUNK GROUP SELECTED  
 1-112, 161-256 ASSIGNS THE TRUNK TO THE SPECIFIED EXTENSIONS  
 AS A TRUNK SHOULD CONTAIN A LINE CARD SO FIRST TRUNK EQUIPMENT NUMBER SHOULD BE 0 10







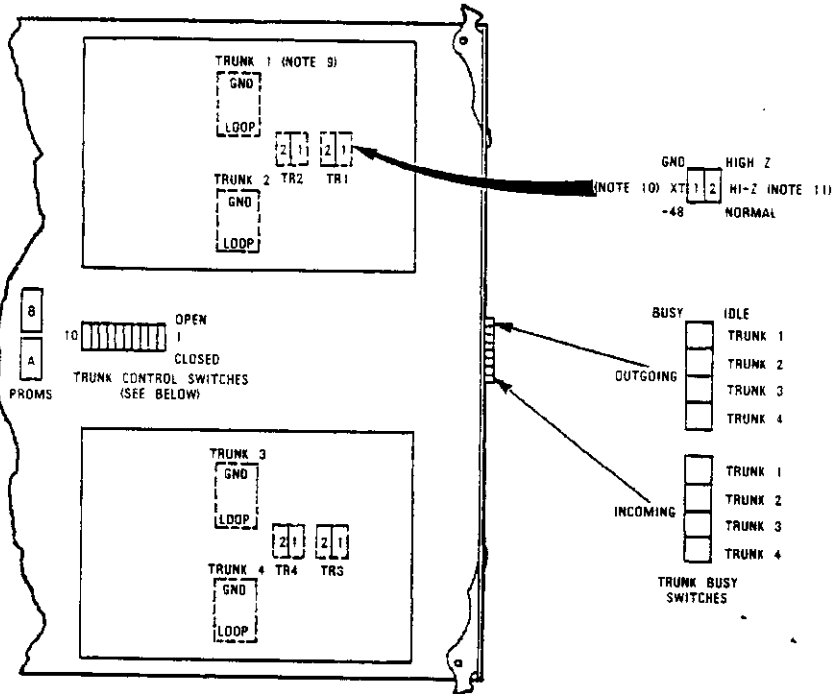


## TRUNK CARD SWITCH SETTINGS - CO TRUNK CARDS

CO DIRECTORY NO.	SELF NO.		CARD TRUNK EQUIP NUMBER	INCOMING CONDITION		OUTGOING CONDITION		LOOP/GND START		3RD WIRE CONDITION		SENSE REVERSALS		RELEASE TIME		M/B RATIO	XT		HI-Z			
	1	2		BUSY	IDLE	BUSY	IDLE	LOOP	GND	ENAB	DIS	IGN	EFF	"A" SHRT	"A" LONG		"B" SHRT	"B" LONG		-48V	HI-Z	NORM
CARD SLOT NO.			1																			
			2																			
			3																			
			4																			
CARD SLOT NO.			1																			
			2																			
			3																			
			4																			
CARD SLOT NO.			1																			
			2																			
			3																			
			4																			
CARD SLOT NO.			1																			
			2																			
			3																			
			4																			
CARD SLOT NO.			1																			
			2																			
			3																			
			4																			

**NOTES**

1. EARLIER TRUNK CARD VERSIONS DO NOT HAVE ALL SWITCHES LISTED ABOVE.
2. CHECK APPROPRIATE COLUMN E.G. "BUSY" OR "IDLE" FOR DESIRED SETTING.
3. SEE SECTION MITI-9105/9110-097-200-NA APPENDIX 5 FOR PROCEDURES USED IN SETTING TRUNK CARD SWITCHES.



TRUNK CONTROL SWITCH FUNCTIONS

SWITCH NO.	FUNCTION	TYPE	
		-211	-311
1	3RD WIRE TRUNK 1	X	X
2	3RD WIRE TRUNK 2	X	X
3	3RD WIRE TRUNK 3	X	X
4	3RD WIRE TRUNK 4	X	X
5	IGNORE REVERSALS	X	X
6	RELEASE TIME "A"	X	X
7	MAKE/BREAK RATIO	-	X
8	RELEASE TIME "B"	X	X
9	NOT USED	-	-
10	NOT USED	-	-

"X" INDICATES THAT FUNCTION STATED IS APPLICABLE FOR THE TYPE 9110-211-000 OR -311-000 TRUNK CARDS; AS NOTED UNDER THE COLUMN HEADINGS.

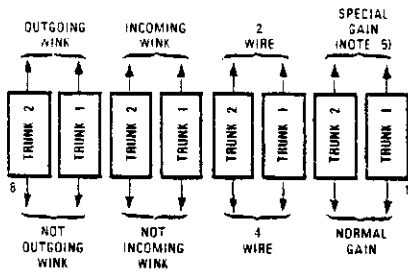
X1268R4

# TRUNK CARD SWITCH SETTINGS - E AND M/TIE TRUNK CARD

CIRCUIT REFERENCE NUMBER _____		
TRUNK 1 _____		
TRUNK 2 _____		
CARD SLOT NUMBER _____		
SHELF NUMBER _____		
EQPT NUMBER _____		
TRUNK CARD (NOTE 1) SWITCH SETTINGS	TRUNK 1	TRUNK 2
EQPT NUMBER		
INCOMING CONDITIONS	BUSY IDLE	
OUT GOING CONDITIONS	BUSY IDLE	
OUTGOING WINK	WINK NO WINK	
INCOMING WINK	WINK NO WINK	
2/4 WIRE CONDITIONS	2 WIRE 4 WIRE	
GAIN	SPECIAL NORMAL	
*TRUNK IMPEDANCE	600 OHM 900 OHM	
LOOP CONDITION	SHORT LONG	
DIALING CONDITION	STOP DIAL NOT STOP DIAL	
M-LEAD CONDITION	NORMAL INVERT	

CIRCUIT REFERENCE NUMBERS _____		
TRUNK 1 _____		
TRUNK 2 _____		
CARD SLOT NUMBER _____		
SHELF NUMBER _____		
EQPT NUMBER _____		
TRUNK CARD (NOTE 1) SWITCH SETTING	TRUNK	TRUNK 2
EQPT NUMBER		
INCOMING CONDITIONS	BUSY IDLE	
OUTGOING CONDITIONS	BUSY IDLE	
OUTGOING WINK	WINK NO WINK	
INCOMING WINK	WINK NO WINK	
2/4 WIRE CONDITIONS	2 WIRE 4 WIRE	
GAIN	SPECIAL NORMAL	
TRUNK IMPEDANCE	600 OHM 900 OHM	
LOOP CONDITION	SHORT LONG	
DIALING CONDITION	STOP DIAL NOT STOP DIAL	
M-LEAD CONDITION	NORMAL INVERT	

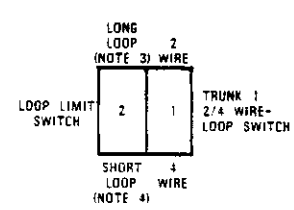
NOTES: 1 TRUNK CARD SWITCHES MUST BE SET TO ONE OF THE TWO POSSIBLE SETTINGS FOR EACH SWITCH AS DETAILED IN SECTION  
 MIL9105/9110-097-200-NA APPENDIX 5 MAP 200-502



NOTE 1: TRUNK IMPEDANCE SWITCHES ARE LOCATED ON THE REAR OF THE FACE OF THE TRUNK CARD.

NOTE 2: OUTGOING/INCOMING SWITCH SETTINGS

OUTGOING BUSY SWITCH SET TO	INCOMING BUSY SWITCH SET TO	RESULT
IDLE	BUSY	NORMAL TRUNK OPERATION - IF TRUNK IS MADE BUSY BY ATTENDANT, OUTGOING BUSY, INCOMING BUSY CONDITION RESULTS. SEE BELOW.
BUSY	BUSY	TRUNK CANNOT BE SEIZED, INCOMING OR OUTGOING FROM THE PABX. RECOMMENDED SETTING IF TRUNK IS NOT CONNECTED TO TRUNK CIRCUIT.
BUSY	IDLE	OUTGOING CALLS RECEIVE BUSY TONE, INCOMING CALLS RECEIVE RINGING TONE BUT CANNOT BE ANSWERED.
IDLE	IDLE	IF TRUNK IS MADE BUSY BY ATTENDANT, OUTGOING BUSY, INCOMING IDLE CONDITION RESULTS. SEE BELOW.

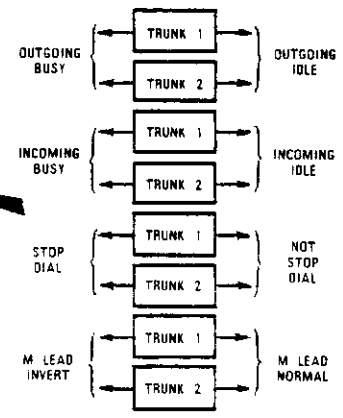
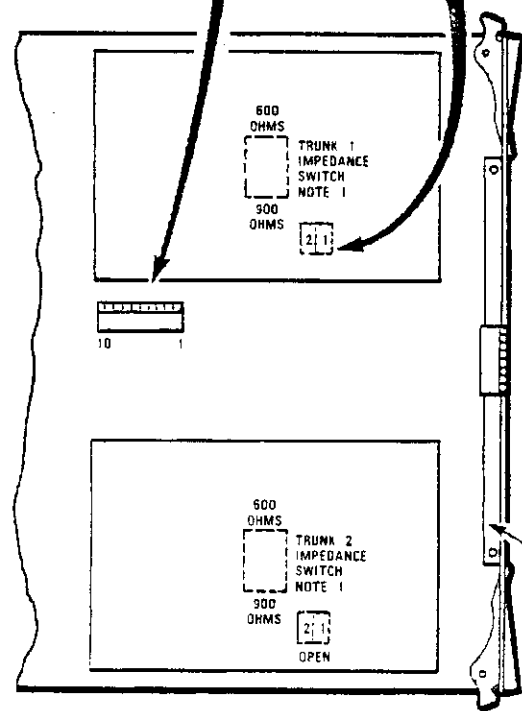


INCOMING BUSY SWITCH, WHEN OPERATED, WILL PROVIDE AN OUTGOING SEIZE SIGNAL WHENEVER THE TRUNK IS MADE OUTGOING BUSY (EITHER FROM THE OUTGOING BUSY SWITCH ON THE TRUNK OR FROM THE CONSOLE).

NOTE 3: LONG LOOP SETTING AT LOOP LIMIT SWITCH RESULTS IN 10 OHM RESISTANCE IN SERIES WITH M LEAD

NOTE 4: SHORT LOOP SETTING OF LOOP LIMIT SWITCH RESULTS IN 110 OHM RESISTANCE IN SERIES WITH M LEAD

NOTE 5: NORMAL GAIN PROVIDES 0.5 dB INSERTION LOSS THROUGH THE PABX. SPECIAL GAIN PROVIDES FOR 4-WIRE OPERATION WITH CARRIER SYSTEMS REQUIRING SIGNAL LEVELS OF -7 dB ON THE RX PAIR, AND -16 dB ON THE Tx PAIR.



SEE NOTE 2

X126R2

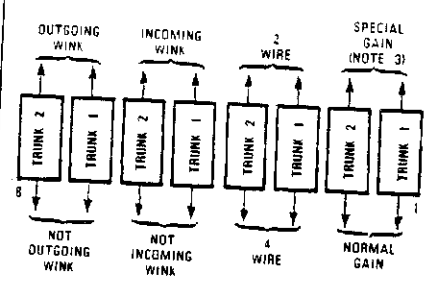
E and M Trunk Card Switch Settings

# TRUNK CARD SWITCH SETTINGS - E AND M/TIE TRUNK CARD

CIRCUIT REFERENCE NUMBER _____		
TRUNK 1 _____		
TRUNK 2 _____		
CARD SLOT NUMBER _____		
SHELF NUMBER _____		
EQPT NUMBER _____		
TRUNK CARD (NOTE 1) SWITCH SETTINGS	TRUNK 1	TRUNK 2
EQPT NUMBER		
INCOMING CONDITIONS	BUSY IDLE	
OUT GOING CONDITIONS	BUSY IDLE	
OUTGOING WINK	WINK NO WINK	
INCOMING WINK	WINK NO WINK	
2/4 WIRE CONDITIONS	2 WIRE 4 WIRE	
GAIN	SPECIAL NORMAL	
TRUNK IMPEDANCE	600 OHM 900 OHM	
LOOP CONDITION	SHORT LONG	
DIALING CONDITION	STOP DIAL NOT STOP DIAL	
M-LEAD CONDITION	NORMAL INVERT	

CIRCUIT REFERENCE NUMBERS _____		
TRUNK 1 _____		
TRUNK 2 _____		
CARD SLOT NUMBER _____		
SHELF NUMBER _____		
EQPT NUMBER _____		
TRUNK CARD (NOTE 1) SWITCH SETTING	TRUNK 1	TRUNK 2
EQPT NUMBER		
INCOMING CONDITIONS	BUSY IDLE	
OUTGOING CONDITIONS	BUSY IDLE	
OUTGOING WINK	WINK NO WINK	
INCOMING WINK	WINK NO WINK	
2/4 WIRE CONDITIONS	2 WIRE 4 WIRE	
GAIN	SPECIAL NORMAL	
TRUNK IMPEDANCE	600 OHM 900 OHM	
LOOP CONDITION	SHORT LONG	
DIALING CONDITION	STOP DIAL NOT STOP DIAL	
M-LEAD CONDITION	NORMAL INVERT	

NOTES: 1. TRUNK CARD SWITCHES MUST BE SET TO ONE OF THE TWO POSSIBLE SETTINGS FOR EACH SWITCH AS DETAILED IN SECTION  
 MTL 2105/9110-097-200-NA APPENDIX 5 MAP 200-502



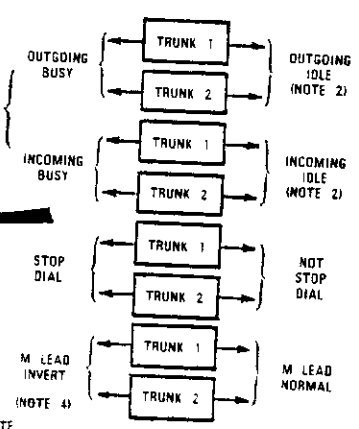
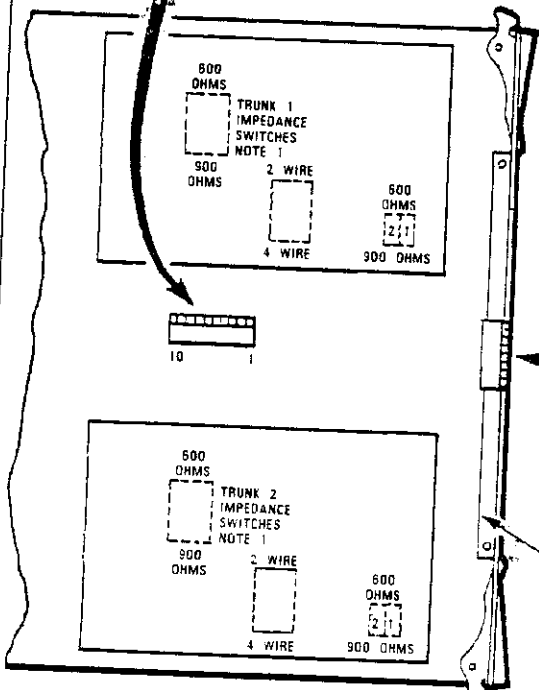
NOTE 1: TRUNK IMPEDANCE SWITCHES ARE LOCATED ON THE REAR FACE OF THE TRUNK CARD.

NOTE 2: OUTGOING-INCOMING SWITCH SETTINGS

OUTGOING BUSY SWITCH SET TO	INCOMING BUSY SWITCH SET TO	RESULT
IDLE	BUSY	NORMAL TRUNK OPERATION - IF TRUNK IS MADE BUSY BY ATTENDANT OUTGOING BUSY, INCOMING BUSY CONDITION RESULTS. SEE BELOW.
BUSY	BUSY	TRUNK CANNOT BE SEIZED INCOMING OR OUTGOING FROM THE PABX. RECOMMENDED SETTING IF TRUNK IS NOT CONNECTED TO TRUNK CIRCUIT.
BUSY	IDLE	OUTGOING CALLS RECEIVE BUSY TONE. INCOMING CALLS RECEIVE RINGING TONE BUT CANNOT BE ANSWERED.
IDLE	IDLE	IF TRUNK IS MADE BUSY BY ATTENDANT, OUTGOING BUSY, INCOMING IDLE CONDITION RESULTS. SEE BELOW.

INCOMING BUSY SWITCH, WHEN OPERATED WILL PROVIDE AN OUTGOING SEIZE SIGNAL WHENEVER THE TRUNK IS MADE OUTGOING BUSY (EITHER FROM THE OUTGOING BUSY SWITCH ON THE TRUNK OR FROM THE CONSOLE).

NOTE 3: NORMAL GAIN PROVIDES 0.5 dB INSERTION LOSS THROUGH THE PABX. SPECIAL GAIN PROVIDES FOR 4-WIRE OPERATION WITH CARRIER SYSTEMS REQUIRING SIGNAL LEVELS OF +7 dB ON THE Rx PAIR, AND -16 dB ON THE Tx PAIR.



NOTE 4: THE POSITION OF THE M LEAD SWITCH DETERMINES THE CONDITION WHICH APPEARS ON THE M LEAD. THESE CONDITIONS ARE AS FOLLOWS:

SWITCH POSITIONS	CONDITIONS	
	IDLE	SEIZED
NORMAL INVERT	GROUND - 48 vdc	- 48 vdc GROUND

E and M Trunk Card Switch Settings

X620R3



## TRUNK CARD SWITCH SETTING - DID/TIE TRUNK CARD

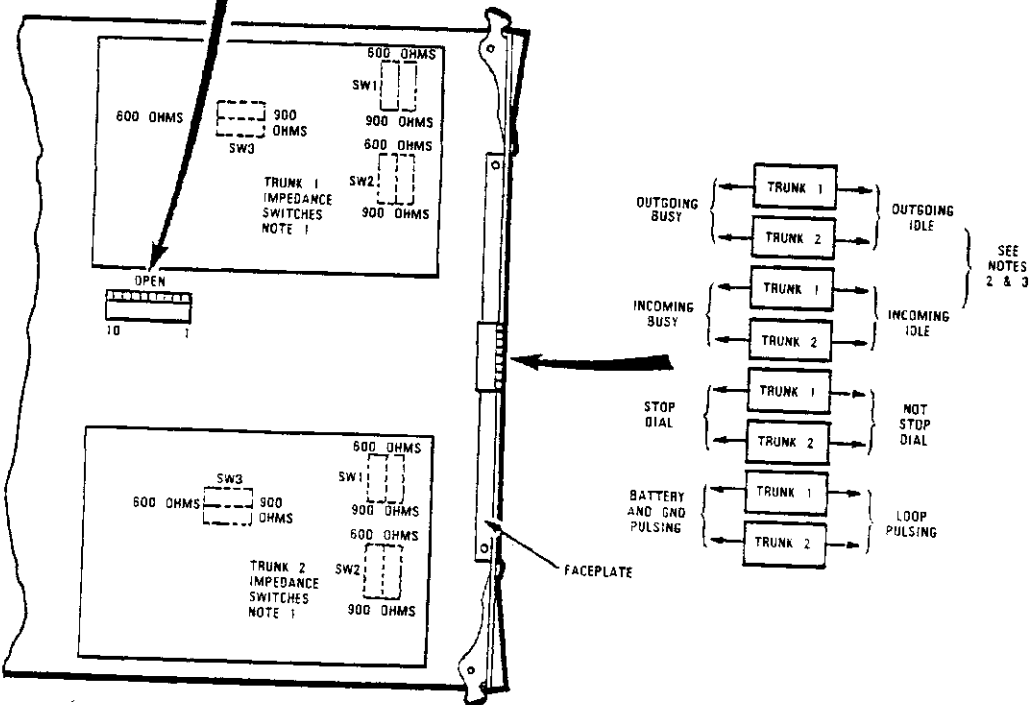
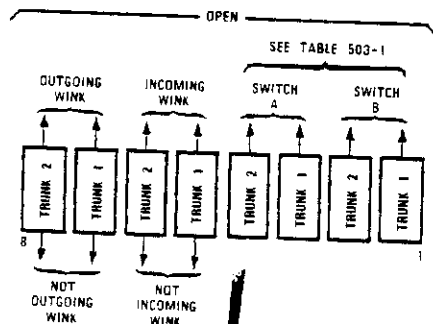
CIRCUIT REFERENCE NUMBERS		
TRUNK 1 .....		
TRUNK 2 .....		
SHELF NUMBER .....		
CARD SLOT NUMBER .....		
TRUNK CARD .....		
SWITCH SETTINGS	TRUNK 1	TRUNK 2
EQPT NUMBER		
INCOMING CONDITIONS	BUSY	
	IDLE	
OUTGOING CONDITIONS	BUSY	
	IDLE	
SWITCH "A" SETTING	CLOSED	
	OPEN	
SWITCH "B" SETTING	CLOSED	
	OPEN	
INCOMING WINK	WINK	
	NO WINK	
OUTGOING WINK	WINK	
	NO WINK	
TRUNK IMPEDANCE SWITCHES (3)	900	
	600	
PULSING CONDITION	BATTERY/GROUND LOOP	
DIALING CONDITIONS	STOP DIAL	
	NOT STOP DIAL	

CIRCUIT REFERENCE NUMBERS		
TRUNK 1 .....		
TRUNK 2 .....		
SHELF NUMBER .....		
CARD SLOT NUMBER .....		
TRUNK CARD .....		
SWITCH SETTINGS	TRUNK 1	TRUNK 2
EQPT NUMBER		
INCOMING CONDITIONS	BUSY	
	IDLE	
OUTGOING CONDITIONS	BUSY	
	IDLE	
SWITCH "A" SETTING	CLOSE	
	OPEN	
SWITCH "B" SETTING	CLOSED	
	OPEN	
INCOMING WINK	WINK	
	NO WINK	
OUTGOING WINK	WINK	
	NO WINK	
TRUNK IMPEDANCE SWITCHES (3)	900	
	600	
PULSING CONDITION	BATTERY/GROUND LOOP	
DIALING CONDITIONS	STOP DIAL	
	NOT STOP DIAL	

NOTES : TRUNK CARD SWITCHES MUST BE SET TO ONE POSSIBLE SETTING FOR EACH SWITCH AS DETAILED IN SECTION MITL 9105/9110-097-200-NA APPENDIX 5 MAP 200-50

TABLE 503-1

TRUNK TYPE	SWITCH A	SWITCH B
DID TRUNK	CLOSED	CLOSED
LOOP TIE TRUNK	CLOSED	OPEN
INCOMING DIAL - OUTGOING AUTO	OPEN	CLOSED
NOT USED	OPEN	OPEN



DID/TIE Trunk Card Switch Settings

X579R2

**MULTI DIGIT TOLL CONTROL FORM**

GENERIC 216



# ABSORB PLAN

TOLL CONTROL	DIAL UNLOCK DIGITS (MAX 4) OR DELETE	ABSORB UNLOCK	ENTER
	DIAL REPEAT DIGITS (MAX 4) OR DELETE	ABSORB REPEAT	
ABSORB PLAN 1 OR 2			
ABSORB PLAN NUMBER 1			
ABSORB PLAN NUMBER 2			

TO VIEW THE ABSORB PLANS:

ABSORB PLAN      NEXT      NEXT

PLAN NUMBER 1      PLAN NUMBER 2  
DISPLAYED      DISPLAYED



# CLASS OF RESTRICTION

(TRUNK GROUP)

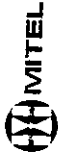
TRUNK GROUP DIAL 7-12	FILE CONTROL ABSCHB PLAN DIAL 1-2 OR DELETE	COR NUMBER DIAL 1-3	CONTROL PLAN DIAL 1-15 OR DELETE	ENTER
		1		
		2		
		3		
		1		
		2		
		3		
		1		
		2		
		3		
		1		
		2		
		3		

TO REVIEW CLASS OF RESTRICTION OF A TRUNK GROUP

TRUNK GROUP    DIAL 1-12    COR    DIAL 1    DISPLAY ENTRY    COR 1    COR 2    COR 3    NEXT

TO SEE NEXT TRUNK GROUP CLASS OF RESTRICTION

TRUNK GROUP    DIAL 1-12    DISPLAY ENTRY    NEXT



# CONTROL PLAN

TOLL CONTROL

DIAL 1-15	DENY TOLL REV	ADD OR DELETE	BASIC COND DIAL 1-5 (NOTE 2)	ADD OR DELETE (NOTE 1)	DIAL 1-9 (800 ENTRY) 21-33 (20 RANGE) 51-73(A ENTRY) OR DELETE	
<input type="checkbox"/> CONTROL PLAN			1 (0)		<input type="checkbox"/> FABLE	<input type="checkbox"/> ENTER
			2 (1-XNX)			
			3 (1-XO/1X)			
			4 (NXX)			
			5 (NO/1X)			
			1 (0)			
			2 (1-XNX)			
			3 (1-XO/1X)			
			4 (NXX)			
			5 (NO/1X)			
			1 (0)			
			2 (1-XNX)			
			3 (1-XO/1X)			
			4 (NXX)			
			5 (NO/1X)			

NOTE 1: ALLOW ALL CODES EXCEPT THOSE LISTED IN THE TABLE SPECIFIED

TO REVIEW CONTROL PLAN ASSIGNMENTS

NOTE 2: DENY ALL CODES EXCEPT THOSE LISTED IN THE TABLE SPECIFIED

TO REVIEW THE BASIC CONDITIONS OF THE CONTROL PLAN

ADD

DELETE

CONTROL PLAN

DISPLAY ENTRY

NEXT

CONTROL PLAN

BASIC COND

DISPLAY ENTRY

NEXT

DIAL 1-15

DIAL 1-15

DISPLAY

DISPLAY

NOTE: N IS ANY NUMBER 2-9  
X IS ANY NUMBER 0-9

# 4 ENTRY EXCEPTION TABLE

FROM BASIC CONDITION \_\_\_\_\_  
OR TABLE NUMBER \_\_\_\_\_

CONTROL PLAN

TOLL CONTROL

THIS TABLE LISTS ALL THE CODES THAT ARE ALLOWED

THIS TABLE LISTS ALL THE CODES THAT ARE DENIED

<p>TABLE <input type="checkbox"/></p> <p>DIAL 51-73 <input type="checkbox"/></p> <p>DISPLAY ENTRY <input type="checkbox"/></p> <p>PRESS ADD <input type="checkbox"/> BEFORE DIALING EACH ENTRY</p>	<p>IF AN EXPANSION TABLE IS TO BE APPLIED TO THIS ENTRY</p> <p>TABLE <input type="checkbox"/> DIAL TABLE NUMBER 1-73 <input type="checkbox"/></p>	
<p>TABLE NUMBER</p>		<p>ENTER <input type="checkbox"/></p>

TO SEARCH FOR A SPECIFIC ENTRY

DISPLAY ENTRY

DIAL ENTRY

DISPLAY ENTRY

IF THE ENTRY DOES NOT EXIST DASHES ARE SHOWN IN THE ENTRY DISPLAY

NEXT

TO DISPLAY THE NEXT ENTRY HAS Y IN THE TABLE AFTER THE ENTRY HAS BEEN SELECTED

TO DELETE THE ENTRY BEING DISPLAYED

DELETE

ENTER

TO DELETE ALL ENTRIES FROM A TABLE

TABLE

DIAL TABLE NUMBER

DELETE

CONFIRM

ENTER

NOTE: ANY OPERATIONS MAY BE PERFORMED IN ANY ORDER.









**SPEED CALL FORMS**

**GENERIC 216**





SPEED CALL TABLE ALLOCATIONS FORM SC-1

TABLE NUMBER	ENTRY ACCESS NUMBERS		EQPT NUMBER	REDIAL	CLASS OF SERVICE															
	COMMON-USE	PERSONAL			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	10-14																			
2	15-19																			
3	20-24																			
4	25-29																			
5	30-34																			
6	35-39																			
7	40-44																			
8	45-49																			
9	50-54																			
10	55-59																			
11	60-64																			
12	65-69																			
13	70-74																			
14	75-79																			
15	80-84																			
16	85-89																			
17	90-94																			
18	95-99																			
19																				
20																				
21																				
22																				
23																				
24																				
25																				

NOTES: 1. STRIKE THROUGH NUMBERS IN COMMON-USE COLUMN, IF TABLE IS TO BE A PERSONAL TABLE, THEN ENTER NEW ENTRY ACCESS NUMBERS IN PERSONAL COLUMN.  
2. CHECK IN REMAINING COLUMNS AS REQUIRED IN RESPECT TO EACH TABLE



PRESS

SPEED CALL

# PERSONAL TABLE PROGRAMMING FORM SC-2 (SYSTEM MUST BE EXTENDED PROGRAMMING)

DIAL TABLE NO.	TABLE	COPI NUMBER DIAL EQUIPMENT NO. 11 - 112, 161, 256 OR DELETE	NOTE 2 & 10 ACCESS NUMBER DIAL ACCESS NO.	NOTE 3 NUMBER REDIAL AND OR DELETE
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

SEE NOTE 10 FOR ENTERING DATA

NOTES

- USE THE ENTRIES MADE ON FORM SC-1 FOR THE PERSONAL TABLES BY TRANSCRIBING THESE IN TURN TO THEIR RESPECTIVE COLUMNS AGAINST THE SAME TABLE NUMBERS ON FORM SC-2. COMMON USE TABLES HAVE BLANK ENTRIES.
- ONLY THE FIRST ACCESS NUMBER FOR EACH PERSONAL TABLE IS REQUIRED TO BE INITIATED. THE REMAINING ACCESS NUMBERS ARE AUTOMATICALLY ALLOCATED FOR THE TABLE.
- THE SAVED NUMBER REDIAL OPERATION IS INITIALLY OMITTED IF NOT REQUIRED FOR SUBSEQUENT PROGRAMMING. SEE NOTES 8 & 9.
- PERSONAL TABLE DATA IS PROGRAMMED IN EXTENDED PROGRAMMING MODE. SEE SECTION 4.1.1.1 (S/ST) 10-097-210 - MA APPENDIX 2 FOR FULL DETAILS.
- THE ENTER BUTTON MAY BE PRESSED AT ANY TIME ENTER DATA, OR PRESSED WHEN ALL DATA IS ENTERED.
- REMOVING A PERSONAL TABLE REMOVES ALL ITS CONTENTS. ACCESS NUMBERS AND REDIAL VALUE (IF ANY).
- TO REMOVE A PERSONAL TABLE:
  - SPEED CALL
  - TABLE
  - DIAL TABLE NUMBER
  - COPY NUMBER
  - DELETE
  - ENTER
- TO ADD A REDIAL ATTRIBUTE:
  - SPEED CALL
  - TABLE
  - DIAL TABLE NUMBER
  - NUMBER REDIAL
  - ADD
  - ENTER
- TO REMOVE A REDIAL ATTRIBUTE:
  - SPEED CALL
  - TABLE
  - DIAL TABLE NUMBER
  - NUMBER REDIAL
  - DELETE
  - ENTER
- TO CHANGE A SPEED CALL ACCESS NUMBER:
  - SPEED CALL
  - TABLE
  - DIAL TABLE NUMBER
  - ACCESS NUMBER
  - DIAL NEW ACCESS NUMBER
  - ENTER



# SPEED CALL NUMBER RECORDS FORM SC-3 (Sheet 1 of 4)

SPEED CALL FEATURE CODE .....

(CONFIDENTIAL WHEN COMPLETED)

## SPEED CALL NUMBER

Special sequences can be entered at any point in the telephone number listing.

- \*1 occupies 1 digit space and causes a 5 sec. pause in use
- \*2 occupies 1 digit space and causes a 5 sec. wait for dial tone
- \*3NNN occupies 2 digit spaces and enables manually dialed digits to be entered
- NNN represents the number of digits to be dialed

TABLE	ENTRY ACCESS NUMBER	SPEED CALL NUMBER																			CALLED PARTY					
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9		0				
1	10																					USED	DIAL	58		
2	15																									
3	20																									

### LISTING YOUR NUMBERS

1. Tables available for use are indicated on the form by the installer. Your Feature Access Code and Classes of Service also have been entered.
2. Opposite the first available entry access number, write in your first telephone number including the trunk group access code. You can use special sequences (see above).
3. Write in the next entry access number, under the first entry number, using a fresh line and continuing with the next telephone number opposite this second entry number.
4. Complete your list of numbers following the above procedure.

### INSTRUCTIONS FOR USER (ATTENDANT)

How to Enter or Change a Number

5. Dial Feature Access Code.
6. Dial 0.
7. Dial entry access number required.
8. Dial telephone number for that entry number.
9. Press the RELEASE button.
10. Repeat the above sequences for each of the remaining entries on the list.

How to Delete a Number

11. Perform Steps 5 through 9 but omit Step 8.

How to Dial a Speed Call Number

12. Dial Feature access code.
13. Dial entry access number.
14. Call proceeds in usual manner.

SEE CONSOLE OPERATING INSTRUCTIONS FOR OTHER DETAILS









# SPEED CALL NUMBER RECORDS FORM SC-3 (Sheet 4 of 4)

(CONFIDENTIAL WHEN COMPLETED)

SPEED CALL FEATURE CODE

## SPEED CALL NUMBER

Special sequences can be entered at any point in the telephone number listing:

- \*1 occupies 1 digit space and causes a 5 sec. pause in use
- \*2 occupies 1 digit space and causes a 5 sec. wait for dial tone
- \*3NN occupies 2 digit spaces and enables manually dialed digits to be entered
- NN represents the number of digits to be dialed

TABLE	COS	ENTRY ACCESS NUMBER	SPEED CALL NUMBER												DIGITS		CALLED PARTY		
			1	5	10	15	20	25	28	USED	DIALED								
14		75																	
15		80																	
16		85																	
17		90																	
18		95																	

**AUTOMATIC ROUTE SELECTION FORMS**  
**GENERIC 216**



CONFIGURATION CHARACTERISTICS FORM ARS 1

TABLE ARS 1-2  
800/9 ENTRY CODE TABLES

NUMBER OF 800 ENTRY TABLES	ARS 1		ARS 2		ARS 3	
	NUMBER OF 800 ENTRY TABLES	TABLE RANGE	NUMBER OF 9 ENTRY TABLES	TABLE RANGE	NUMBER OF 9 ENTRY TABLES	TABLE RANGE
0	35	1-35	55	1-55	110	1-110
1	30	2-31	50	2-51	105	2-106
2	25	3-28	45	3-47	100	3-102
3	20	4-23	40	4-43	95	4-98
4	15	5-19	35	5-39	90	5-94
5	10	6-15	30	6-35	85	6-90
6	5	7-11	25	7-31	80	7-86
7	0	-	20	8-27	75	8-82
8	-	-	15	9-23	70	9-78
9	-	-	10	10-19	65	10-74
10	-	-	5	11-15	60	11-70
11	-	-	0	-	55	12-66
12	-	-	-	-	50	13-62
13	-	-	-	-	45	14-58
14	-	-	-	-	40	15-54
15	-	-	-	-	35	16-50
16	-	-	-	-	30	17-46
17	-	-	-	-	25	18-42
18	-	-	-	-	20	19-38
19	-	-	-	-	15	20-34
20	-	-	-	-	10	21-30
21	-	-	-	-	5	22-26
22	-	-	-	-	0	-

TABLE ARS 1-1  
CONFIGURATION CHARACTERISTICS

CONFIGURATIONS	WAKE-UP	MULTI DIGIT TOLL CONTROL	SPEED CALL	AUTOMATIC ROUTE SELECTION	NUMBER OF 800 ENTRY TABLES
1	WU	TC-2	-	ARS 1	1 TO 7
2	-	TC-2	SC1	ARS 1	1 TO 7
3	-	TC-1	SC2	ARS 1	1 TO 7
4	-	TC-3	-	ARS 1	1 TO 7
5	WU	TC-1	-	ARS 2	1 TO 11
6	-	-	SC1	ARS 3	1 TO 22
7	WU	TC-1	SC1	ARS 1	1 TO 7
	WU AUTO-MATIC WAKE-UP	TC-1 BASIC STANDARD EXTENDED	SC1 STANDARD EXTENDED	ARS 1 BASIC STANDARD EXTENDED	CONSULT TABLE ARS 1-2 FOR 800/9 ENTRY TABLE CHARACTERISTICS

NOTE 1: AN 800 ENTRY TABLE WILL BE IDENTIFIED BY A PERIOD AFTER THE TABLE NUMBER (IN THE DESTINATION DISPLAY) DURING EXTENDED PROGRAMMING



THE SYSTEM MUST BE IN EXTENDED PROGRAMMING - LAMP TEST LED FLASHING

1	SELECT ARS MODE PRESS	2	ARS	3	SELECT TABLE QTY PRESS	4	TABLE QTY	DIAL DIGITS THAT REPRESENT NUMBER OF 800 ENTRY TABLES REQUIRED	TO ENTER THIS INFORMATION PRESS	ENTER
---	-----------------------------	---	-----	---	------------------------------	---	--------------	--	---------------------------------------	-------

CODE TABLE QUANTITY SELECTION FORM ARS-2







# AREA CODE/OFFICE CODE PROGRAMMING FORM ARS 4B

FOR LOCAL AREA CODE

LOCAL AREA	DIAL LOCAL AREA CODE	PRESS  ENTER
---------------	-------------------------------	--------------------

TO DELETE, ADD OR VIEW FOR ARS 4A

CODE TABLE	DIAL TABLE NUMBER	DELETE	CONFIRM	ENTER
CODE TABLE	DIAL TABLE NUMBER	AREA CODE	DIAL ROUTE TABLE	DIAL AREA CODE
CODE TABLE	DIAL TABLE NUMBER	AREA CODE	DIAL ROUTE TABLE	DIAL ROUTE TABLE
			OFFICE CODE	DIAL 3 DIGITS
			OFFICE CODE	DIAL 3 DIGITS

TO VIEW OFFICE WIDE TABLE

CODE TABLE	NEXT	NEXT
OFFICE CODE	NEXT	NEXT

TO VIEW OFFICE CODE ENTRIES

OFFICE CODE	NEXT	NEXT
----------------	------	------







# ROUTE TABLE PROGRAMMING FORM ARS-6 (2 OF 2)

1. TO DELETE A ROUTE TABLE  
 PRESS

2. TO DELETE A ROUTE NUMBER BEING DISPLAYED  
 PRESS

OR

PRESS

3. TO DELETE A ROUTE CHOICE BEING DISPLAYED  
 PRESS

OR

PRESS

4. TO VIEW ROUTE TABLES  
 PRESS

5. TO VIEW ROUTE CHOICES IN A SCHEDULE  
 PRESS

6. TO VIEW SCHEDULES IN A ROUTE CHOICE:  
 PRESS

7. TO VIEW ROUTES TABLES:  
 PRESS



**SX-100\*AND SX-200\***  
**SUPERSWITCH\***  
**ELECTRONIC PRIVATE AUTOMATIC EXCHANGE**  
**SYSTEM PROGRAMMING**  
**GENERIC 216**

CONTENTS	PAGE	CONTENTS	PAGE
1. GENERAL	2	(MAP210-205)	A2-23
Introduction	2	Program Extensions	A2-27
Reason for Reissue	2	(MAP210-206)	A2-27
Purpose	3	Program Extension Hunt Groups	A2-35
(MAP210-207)	3	Program Non Dial-In Trunks	A2-41
2. PROGRAM DESCRIPTION	3	(MAP210-208)	A2-41
General	3	Program Dial-In Trunks	A2-51
Tenant Mode	3	(MAP210-209)	A2-51
System Options	3	Program DID Trunks	A2-59
Class-of-Service Options	18	(MAP210-210)	A2-59
Feature Access Codes	18	Program Trunk Groups	A2-65
Extensions	18	(MAP210-211)	A2-65
Hunt Groups	26	Terminating Programming Mode	A2-73/74
Trunks	27	(MAP210-212)	A2-73/74
Trunk Groups	29	Range Programming For Extensions	A2-75
3. PROGRAMMING	29	(MAP210-213)	A2-75
General	29	Selection of Extended Programming	A2-79
Error/Confirm Codes	29	(MAP210-221)	A2-79
Attendant Function Access Codes	29	Absorb Plan (MAP210-222)	A2-83
Maintenance Function Access Codes	31	Control Plan (MAP210-223)	A2-87
Time-Out Information	31	Trunk Group Class of Restriction	A2-91
APPENDIX 1 - MITEL ACTION		(MAP210-224)	A2-91
PROCEDURES	A1-1	Restriction Tables	A2-95
APPENDIX 2 - SYSTEM PROGRAMMING		(MAP210-225)	A2-95
MAP'S	A2-1/2	Add An Entry (MAP210-226)	A2-97/98
System Programming	A2-3	Displaying Sequential Entries	A2-99/100
(MAP210-201)	A2-3	(MAP210-227)	A2-99/100
Select Programming Mode	A2-5	Search for an Entry	A2-101/102
(MAP210-202)	A2-5	(MAP210-228)	A2-101/102
Program System Options	A2-11	Delete an Entry	A2-103/104
(MAP210-203)	A2-11	(MAP210-229)	A2-103/104
Program COS Options	A2-17	Programming Personal Tables	A2-105
(MAP210-204)	A2-17	(MAP210-242)	A2-105
Assign Feature Access Codes	A2-17	Convert Table From Personal to	A2-109
		Common-Use (MAP210-243)	A2-109
		Code Table Quantity Selection	

or Change (MAP210-250) . . . . .	A2-111/112
Area Code Table Programming (MAP210-251) . . . . .	A2-113
Review Area Code Table Programming (MAP210-252) . . . . .	A2-115
Delete an Area Code Table (MAP210-253) . . . . .	A2-117
Area Code/Office Code Programming (MAP210-254) . . . . .	A2-119
Review or Delete Part or All Area Code/Office Code (MAP210-255) . . . . .	A2-123
Program Modify Digits (MAP210-256) . . . . .	A2-127
To Review or Delete Modify Digit Tables (MAP210-257) . . . . .	A2-131
Route Table Programming (MAP210-258) . . . . .	A2-135
To Review or Delete a Route Table (MAP210-259) . . . . .	A2-139
Review or Delete Routes (MAP210-260) . . . . .	A2-143
Terminating Programming (MAP210-274) . . . . .	A2-147/148

1. GENERAL

Introduction

1.01 The SX-100 and SX-200 PABX's are processor-controlled switching systems. In order to process calls, the central processor needs to know certain information about the calling and called equipment. This information is described by blocks of data held in the system memories. A number of service change programs are provided to allow additions, deletions and changes to be made to the equipment configuration. The eight service change programs provided are:

- **Tenant Mode.** Defines whether the system is to be used by single or multi-tenants.
- **System Options.** Describes the options which may be enabled on a system basis.
- **Class-of-Service Options.** Each class of service specifies the features which may be used by stations assigned that Class Of Service (COS). A maximum of sixteen different classes of service may be specified for each system.

- **Feature Access Codes.** A number of features within the system are accessed by dialing a special access code. This program allows the access codes for the features to be defined.
- **Extensions.** This program allows the equipment number, extension number, Class Of Service (features allowed), toll access, busy lamp field assignment and pickup group assignment for each extension to be made.
- **Hunt Groups.** This program allows the extensions within each hunt group to be specified, together with the hunt group master number (access code).
- **Trunks.** This program allows each trunk to be described in terms of the equipment number, trunk type, listed directory number, day and night numbers, busy lamp number, COS and toll access.
- **Trunk Group.** This program allows the trunks within each group to be specified, together with trunk group type, access code and overflow group.

Reason For Reissue

1.02 This Section is reissued to incorporate enhancements to the Generic 216 information for the SX-100 and SX-200 PABX's.

1.03 Other additional service programs, dependent upon the type of software Generic installed in the PABX, may be implemented. These are listed below and include relevant MITEL Practice references, which should be consulted for descriptions and programming requirements.

- (a) Traffic Measurement. See Section MITL9105/9110-097-450-NA.
- (b) Multi Digit Toll Control. See Section MITL9105/9110-097-212-NA.
- (c) Station Message Detail Recording. See Section MITL9105/9110-097-451-NA.
- (d) Speed Call. See Section MITL9105/9110-097-220-NA.

- (e) Automatic Route Selection. See Section MITL9105/9110-097-213-NA.

### Purpose

1.04 This Section consists of four parts, each part explaining a different facet of the system programming.

- Part 1 General - general description of system programming contents and purpose of the programming manual.
- Part 2 Program Description - a description of each program and definition of each entry and possible response.
- Part 3 Programming - this part contains a general introduction to the system programming and MITEL Action Procedures (MAP's) which detail how to use each program. When entering data, the system checks each entry to ensure that the codes entered are correct, and if an error is detected, it sounds the console ringer and displays the required error code. These codes and their meaning are defined in this part.
- Part 4 Examples - The examples in this part show how the programs are used to define a typical system.

## 2. PROGRAM DESCRIPTION

### General

2.01 Because the PABX is controlled by a processor, data describing each extension, trunk, feature etc. must be entered into the system. This is done by pressing keys and dialing codes. The codes dialed are held in the system memories and used by the system during call processing. Eight basic programs are provided which allow data to be entered into the system as equipment is added, or existing data to be changed or removed as the system configuration changes. The following paragraphs describe the eight programs (see 1.01). These programs specify the keys to be pressed and explain the entries that may be made. The Appendices to this section contain an introduction to MITEL Action Procedures (MAP's) and the actual MAP's which detail each step in system programming. A com-

plete description of each feature and option is given in Section MITL9105/9110-097-105-NA Features and Services Description. Other types of programs are referenced in 1.03.

### Tenant Mode

2.02 The tenant program allows a user to specify the number of the tenant for which entries are to be made. If multi-tenant service is to be selected, the system must be placed in the programming mode, then the TENANT key pressed and the tenant number entered. If single tenant service is required, Tenant mode should not be selected.

### System Options

2.03 The system options are selected by the console keys as described below:

- **OPTION.** This key selects the option program which allows the system to set-up or change the active option list. The code entered (Table 2-1) after selecting the option program defines the option to be added or removed from the active option list, but see Table 2-2 for possible option conflicts.
- **ADD.** When pressed, this key adds the option code to the active system option list, making the option available for use by the system.
- **DELETE.** Pressing the DELETE key, after dialing an option code, removes the code from the active option list inhibiting further use of that option.
- **CANCEL.** As entries are made during the option program, they are stored in a temporary memory. If after making a number of entries, an error is discovered, all new entries may be removed by pressing the CANCEL key.
- **ENTER.** After all entries have been made to the system option, they may be moved from the temporary storage to permanent storage by pressing the ENTER key. Additional changes may be made by reentering the option program.

TABLE 2-1  
SYSTEM OPTIONS

Option Number	Option	Description
100	Discriminating Ringing	Enables discriminating ringing for trunk and attendant-handled calls.
101	Transfer Dial Tone	Enables transfer dial tone.
102	Flexible Night Service	Enables flexible night service.
103	Night Service Automatic Switching	Enables night service automatic switching.
104	TAFAS Available During Day	Enables TAFAS during day.
105	Outgoing Trunk Camp-On	Allows station camp-on feature to be used on trunks. If station camp-on is not enabled, this option is ineffective on trunks.
106	Outgoing Trunk Callback	Allows busy callback feature to be used on trunks.
107	Can Flash if Talking to an Incoming Trunk	Allows extensions to switchhook flash on incoming trunk calls.
108	Can Flash if Talking to an Outgoing Trunk	Allows extensions to switchhook flash on outgoing trunk calls.
109	Can Flash if Talking to Station	Allows extensions to switchhook flash on extension calls.
110	Cannot Dial a Trunk After Flashing	Inhibits dialing a trunk after flashing. This option does not apply to dialing a trunk for broker's call.
111	Cannot Dial a Trunk After Flashing if Holding or in Conference with a Trunk	Inhibits dialing a trunk after flashing, only if the existing call has a trunk party. This option does not apply to broker's call.
112	Lockout Alarm Enable	Causes a minor alarm when an extension is locked out.
113	Tenant Service	Enables tenant service. This option cannot be programmed like other system options, but is entered automatically, if Tenant Service is selected prior to system programming.
114	Tenant Service - Separate Consoles	Allows the use of a separate console for each of two tenants. If this option is not selected, tenants must share consoles.



TABLE 2-1 (CONT'D)  
SYSTEM OPTIONS

Option Number	Option	Description
115	Vacant Number Intercept to Attendant	Causes all calls, other than DID or Dial-In Tie Trunk calls to vacant levels and numbers to be routed to the attendant for intercept. If this option is not selected, such calls will receive re-order tone.
116	Illegal Access Intercept to Attendant	Causes all calls, other than DID or Dial-In Tie Trunk calls to unauthorized access codes, to be routed to the attendant for intercept. If this option is not selected, such calls will receive re-order tone.
117	DID/Dial-in/CCSA Vacant/Illegal Intercept to Attendant	This option causes calls on DID/Dial-In and CCSA trunk calls that attempt access to a vacant or not allowed number to intercept to the attendant.
118	Attendant Camp-On	Allows attendant camp-on. If this option is not selected, pressing the release button, when attempting to connect a call to a busy station, will release the call. See "Attendant Timed Recall Camp-On" options.
119	Attendant Conference	Allows attendant conference.
120	Attendant Busy Override	Allows attendant override.
121	Attendant Serial Call	Allows attendant serial call. If this option is selected, hotel/motel guest room capability is unavailable, unless the FLASH button is programmed as the SERIAL CALL button (System Option 261).
122	Bell Off Enable	Enables the Bell Off Button. If this option is not selected, the "Bell Off" button is ineffective, i.e., the console ringer cannot be turned off.
123	Page Button Enable	Allows the attendant access to the paging equipment by pressing the PAGE button.
124	New Call Tone Enable	Causes the first incoming call to signal the attendant with a single tone ringer burst, if the attendant is already busy on another call. If the option is not selected, incoming calls which arrive while the attendant is handling another call, will not provide any audible signal, until the attendant releases from that call.
125	Both Mode Standard	Causes the attendant to be normally connected to both the SOURCE and DESTINATION of calls through the console. Manual splitting can be achieved using the SOURCE and DESTINATION buttons. If this option is not selected, the console will operate in an automatic split mode, i.e., the attendant will always be split toward the source upon answering calls, and will be split toward the destination as soon as the destination number is dialed. Manual splitting can still be achieved using the SOURCE and DESTINATION buttons.

TABLE 2-1 (CONT'D)  
SYSTEM OPTIONS

Option Number	Option	Description
126	Callback Button Enable	Enables the "Callback" button, i.e. gives the attendant access to the callback feature.
127	Trunk Busy Out Enable	Allows the attendant to "busy out" and "de-busy" individual trunks. If this option is not selected, the attendant will still be able to access individual trunks, but will not be able to busy them out or remove a busy-out condition.
128	Both Button Enable	Enables the "both" button. If this feature is not selected, the attendant will be able to split between source and destination, but will not be able to speak to both source and destination at the same time.
129	Attendant CO Trunk - CO Trunk Connect Enable	Allows the attendant to make CO trunk to CO trunk connections via the console.
130	Attendant CO Trunk - Non-CO Trunk Connect Enable	Allows the attendant to make CO trunk to Non-CO trunk connections via the console.
131	Attendant Non-CO Trunk - Non-CO Trunk	Allows the attendant to connect Non-CO trunks together via the console.
132	Controlled Outgoing Restriction Setup	Enables the "Room Restrict" button, i.e., allows the attendant to set up the controlled outgoing restriction feature. If this feature is selected, Night Service 2 is not available.
133	Controlled Station Restriction Setup	Enables the "Do Not Disturb" button, i.e., allows the attendant to use the controlled station restriction feature.
134	Controlled Station-to-Station Restriction Setup	Enables the Call Block button, i.e., allows the attendant to inhibit calls between stations with the "H/M Station-Station Restrict Applies" feature in their Class of Service. If this feature is selected, Attendant Hold 4 button is unavailable.
135	Attendant DISA Code Setup Enable	Allows the attendant to change the Direct Inward Systems Access (DISA) security code from the console.
136	Limited Wait for Dial Tone	Limits the "wait for dial tone" trunk group option to wait a maximum of 5 seconds and then, cut through even if no dial tone is detected. If this option is not selected, there is no time limit on the "wait for dial tone" trunk group option.

TABLE 2-1 (CONT'D)  
SYSTEM OPTIONS

Option Number	Option	Description
137	Message Waiting Setup (Lamp)	Enables the "MSGE WAIT" button and allows the attendant to cause the PABX to light "message waiting" lamps on extension.
138	Message Waiting Setup (Bell)	Enables the "MSGE WAIT" button and allows the attendant to cause the PABX to distinctively ring extension every 20 minutes, to signal a "message waiting" condition.
139	Attendant Timed Recall Camp-On 20 seconds	Causes Attendant Timed Recall Camp-On after 20 seconds.
140	Attendant Timed Recall Camp-On 40 seconds	Causes Attendant Timed Recall Camp-On after 40 seconds. If neither of these two options is selected, the Attendant Camp-On Recall time-out will be 30 seconds. These time-outs are only effective if the "Attendant Camp-On" feature has been selected.
141	Attendant Timed Recall Don't Answer - 20 seconds	Causes Attendant Timed Recall Don't Answer after 20 seconds.
142	Attendant Timed Recall Don't Answer - 40 seconds	Causes Attendant Timed Recall Don't Answer after 40 seconds. If neither of these two options is selected, Attendant Timed Recall Don't Answer will be 30 seconds.
143	Attendant Timed Recall Hold, 20 seconds	Causes Recall Hold after 20 seconds.
144	Attendant Timed Recall Hold, 40 seconds	Causes Recall Hold after 40 seconds. If neither of these two options is selected, Attendant Recall Hold time will be 30 seconds.
145	Night Service Time-Out 20 seconds	Sets Night Service Automatic Switching at 20 seconds.
146	Night Service Time-Out 40 seconds	Sets Night Service Automatic Switching time-out at 40 seconds. If neither of these two options is selected, the Night Service Automatic Switching time-out will be 30 seconds. These time-outs are only effective if the Night Service Automatic Switching option has been selected.
147	Call Forwarding - Don't Answer Time-Out - 20 seconds	Causes Call Forwarding Don't Answer to forward after 20 seconds of ringing.

TABLE 2-1 (CONT'D)  
SYSTEM OPTIONS

Option Number	Option	Description
148	Call Forwarding - Don't Answer Time-Out - 40 seconds	Causes Call Forwarding Don't Answer to forward after 40 seconds of ringing. If neither of these two options is selected, the Call Forwarding Don't Answer time-out will be 30 seconds. These time-outs are only effective, if the "Call Forwarding Don't Answer" features are selected. The time-out selected will apply to both the station and system features.
149	Call Forwarding Busy (System DID, Dial-In CCSA)	Enables the DID, Dial-In, or CCSA Trunk Call Forwarding - Busy feature.
150	Call Forwarding - Don't Answer Time-Out (System, DID, Dial-In, CCSA)	Enables the DID, Dial-In, or CCSA trunk Call Forwarding - Don't Answer feature. See Call Forwarding - Don't Answer Time-Out system options.
151	Call Park Recall - 2 minutes	Sets the Call Park and Call Hold Recall time-out at 2 minutes.
152	Call Park Recall - 4 minutes	Sets the Call Park and Call Hold Recall time-out at 4 minutes. If neither of these two options is selected, the Call Park and Call Hold Recall timer will be 3 minutes. These time-outs are only effective if the "Call Park" or "Call Hold" stations feature has been selected.
153	End of Dial Signal for Outgoing Trunks (#)	Enables the use of the octothorp button (#) to signal end of dialing to the PABX on outgoing trunk calls from the attendant console or extension.
154	24-Hour Clock	Enables the console digital clock to display 24-hour time. If this option is not selected, the clock will display 12-hour time.
155	First Digit Toll Deny	Causes toll denial if the first digit dialed is 1, 0, * or #. If this option is not selected, toll denial will be on the first or second digit.
156	Message Registration Enable	Allows the system to keep count of the number of completed local Central Office calls made from each extension.
157	Message Registration Count Additional Supervisions	Counts all real (pseudo answer supervisions are ignored) answer supervisions received during each call.
158	Message Registration Timer 20 seconds	Causes a single pseudo answer supervision signal to be generated after 20 seconds if the serving CO does not provide answer supervision.

TABLE 2-1 (CONT'D)  
SYSTEM OPTIONS

Option Number	Option	Description
159	Message Registration Timer 40 seconds	Causes a pseudo answer supervision signal to be generated after 40 seconds, if the serving CO does not provide answer supervision. If neither of these two options are selected, the pseudo answer supervision signal is generated after 30 seconds.
160	Message Registration Multiplier - 4 Units	Multiplies the Message Register count by 4.
161	Message Registration Multiplier - 3 Units	Multiplies the Message Register count by 3.
162	Message Registration Multiplier - 2 units	Multiplies the Message Register count by 2.
163	Message Registration Surcharge - 8 Units	Adds a surcharge of 8 units to the FIRST answer supervision signal received on each call.
164	Message Registration Surcharge - 7 Units	Adds a surcharge of 7 units to the FIRST answer supervision signal received on each call.
165	Message Registration Surcharge - 6 Units	Adds a surcharge of 6 units to the FIRST answer supervision signal received on each call.
166	Message Registration Surcharge - 5 Units	Adds a surcharge of 5 units to the FIRST answer supervision signal received on each call.
167	Message Registration Surcharge - 4 Units	Adds a surcharge of 4 units to the FIRST answer supervision signal received.
168	Message Registration Surcharge - 3 Units	Adds a surcharge of 3 units to the FIRST answer supervision signal received.
169	Message Registration Surcharge - 2 Units	Adds a surcharge of 2 units to the FIRST answer supervision signal received.
170	Message Registration Surcharge - 1 Unit	Adds a surcharge of 1 unit to the FIRST answer supervision signal received.
171	DID,CCSA to Non-CO Trunks via Attendant Inhibit	Prevents DID trunks from being connected to Non-CO trunks via the attendant.
172	Guest Room Button Enable	Allows use of the GUEST ROOM button which allows the attendant to display and change the feature in use by a hotel room.

TABLE 2-1 (CONT'D)  
SYSTEM OPTIONS

Option Number	Option	Description
173	Room Status Button Enable	Allows the attendant to display and change status of a hotel room.
174	Do Not Disturb Intercept to the Attendant	Causes calls directed to extensions with Do Not Disturb active to be routed to the attendant.
175	Do Not Disturb and Message Waiting Display	Enable the attendant to display which extensions have Do Not Disturb active and extensions that have a message waiting active.
176	Single Digit Dialing Enable	Allows single digit codes to be used for special services even if the codes conflict with the numbering plan.
177	Single Digit Dialing Time-Out - 3 seconds	Completes a single digit dialed call after 3 seconds.
178	Single Digit Dialing Time-Out - 5 seconds	Completes a single digit dialed call after 5 seconds. If neither of these options are selected, single digit calls are completed after 4 seconds.
179	Attendant Station Busy Out Enable	Enables the attendant to make an extension inoperative and to also remove the busy out condition.
180	Flash Timer - 0.7 seconds	Sets the switchhook flash recognition time to lie between 190 ms and 700 ms.
181	Flash Timer - 0.9 seconds	Sets the switchhook flash recognition time to lie between 190 ms and 900 ms.
182	Flash Timer - 1.1 seconds	Set the switchhook flash recognition time to lie between 190 ms and 1100 ms.
183	Trunk Recall Partial Inhibit	Switchhook flashes that occur while an extension is talking on a trunk will be partially inhibited.
184	Reserved	
185	Reserved	
186	Reserved	
187	Reserved	
188	Reserved	
189	Reserved	
190	Automatic Wake-Up Enable	Allows the attendant to enable the system to ring an extension at a prearranged time.

TABLE 2-1 (CONT'D)  
SYSTEM OPTIONS

Option Number	Option	Description
191	Automatic Wake-Up Print	This option enables all Wake-Ups that are attempted, not answered and answered to be printed.
192	Automatic Wake-Up Music on Hold	This option allows an extension answering a Wake-Up call to receive Music on Hold.
193	Room Message Register Audit Enable	This option allows an Audit of all extension Message Registers that have any contents.
194	Room Status Audit Enable	This option will allow the Room Status of all rooms to be printed.
195	Message Register & Message Waiting Change Print Enable	This option allows all Message Registers and Message Waiting to be printed.
196	Ignore Print Enable	Allows the attendant to dial a code that will purge and ignore the RS232 output.
197	Remote System Reset - Protection Override	This option allows the system to be reset from the test line on console, without setting the thumbwheel switches on the Tone Control Card to 777n.
198	Extension Non-CO Trunk to Trunk Connect Enable	This option allows an extension to connect a Non-CO trunk to a CO trunk, then go on-hook and leave the two trunks connected.
199	Multi Digit Toll Control Enable	This option enables the Multi Digit Toll Control Feature.
200	Traffic Measurement Enable	This option enables the Traffic Measurement Feature.
201	Traffic Measurement Extreme Value Mode	This option allows an active register's contents to be transferred to a storage register, if the active register is greater than the storage register.
202	Traffic Measurement Compact Traffic Report	This option causes the Traffic Measurements to be output in a compact format.
203	Traffic Measurement Polling	This option allows traffic data to be polled by an external device.
204	Traffic Measurement Autoprint	This option allows traffic data to be output automatically at the end of each hour.
205	Identified Trunk Group Enable	This option allows trunks to be programmed as Identified Trunks.

TABLE 2-1 (CONT'D)  
SYSTEM OPTIONS

Option Number	Option	Description
206	Inhibit Automatic Supervision	This option allows an Incoming tie to dial a CO trunk through the PABX. This allows any supervisions from the CO to be passed on to the tie trunk.
207	Printer Carriage Return Delay	This option allows additional time for the printer carriage to return.
208	Zero Message Register After Room Register Audit	If this option is selected, the Message Registers will be zeroed after an audit.
209	Traffic Measurement Console Function Enable	If this option is selected, the Traffic Measurement may be controlled from the attendant console.
210	Attendant Printer Control Enable	This option allows the attendant to control the printer from the console.
211	System ID Enable	This option allows the System ID to be printed with all Traffic Measurements, Data Dumps and SMDR reports.
212	Night Bell 3 with Minor Alarm Enable	This option allows Night Bell 3 to be rung in the event of a minor system alarm.
213	Printouts: Extra Line Feeds	This option allows for 2 extra line feeds for the printer in Hotel/Motel applications.
214	Wake-Up Alarm Enable	This option allows an extension to set its own Wake-Up alarm.
215	Reserved	
216	Speed Call Enable	This option enables the system Speed Call Feature.
217	Speed Call Programming Enable	This option allows the attendant to program a Common Use Table.
218	Speed Call Confidential Number Display	This option allows the attendant to observe a Common Use number.
219	Reserved	
220	Station Message Detail Recording Outgoing Calls	This option when activated initiates SMDR on outgoing calls.
221	Station Message Detail Recording Incoming Calls	This option when enabled initiates SMDR on all incoming calls.



TABLE 2-1 (CONT'D)  
SYSTEM OPTIONS

Option Number	Option	Description
222	SMDR Extended Record	This option allows the length of the SMDR record to be extended from 80 to 88 characters. This allows the last four digits to 12-digit Account Codes and the system ID to be printed.
223	SMDR: Record Meter Pulses	This option allows the system to record all meter pulses from the CO.
224	SMDR: Indicate Long Calls	This option flags all calls that are longer than 5 minutes.
225	SMDR: Drop Incomplete Outgoing Call	If this option is selected, outgoing calls that are not complete are not recorded.
226	SMDR: Record Only Incoming CO Calls (CCSA & Non Dial Tie Trunks)	This option records all incoming calls in the switch.
227	SMDR: Drop Calls of Less than 8 Digits	This option will eliminate all trunk calls of 8 digits or less from the SMDR records.
228	Discriminating Dial Tone	An extension having Do Not Disturb or Call Forwarding Follow Me in effect, will receive a distinct dial tone.
229	Special ANI Feature	This option enables the special Automatic Number Identification feature.
230	Account Code Enable	This option enables the Account Code Feature.
231	Account Code Length: - 4 Digits	This option specifies the Account Code length to be 4 digits.
232	Account Code Length: - 8 Digits	This option specifies the Account Code length to be 8 digits.
233	Account Code Length: - 12 Digits	This option specifies the Account Code length to be 12 digits.
234	Variable Length Account Codes	This option allows Account Codes to be of a variable length up to 12 digits.
235	Customer Programming Enable	This option enables programming from the attendant console by the attendant.
236	Customer Range and Tenant Programming Enable	This option enables Range programming.

TABLE 2-1 (CONT'D)  
SYSTEM OPTIONS

Option Number	Option	Description
237	Customer Programming of System Options Enable	This option enables System Option programming by the attendant.
238	Customer Programming of COS Definitions Enable	This option enables COS definition by the attendant.
239	Customer Programming of Features Enable	This option enables Feature definition (of access codes) by the attendant.
240	Customer Programming of Extensions Enable	This option enables Extension definition by the attendant.
241	Customer Programming of Trunks Enable	This option enables Trunk definition by the attendant.
242	Customer Programming of Hunt Groups Enable	This option enables Hunt Group definition by the attendant.
243	Customer Programming of Trunk Groups Enable	This option enables Trunk Group definition by the attendant.
244	Customer Programming of Toll Control Enable	This option enables Toll Control definition by the attendant.
245	Customer Programming of Speed Call Enable	This option enables Speed Call definition by the attendant.
246	Customer Programming of ARS Enable	This option enables ARS definition by the attendant.
247	Reserved	
248	Reserved	
249	Reserved	
250	Reserved	
251	Incoming to Outgoing Call Forwarding Enable	This option allows incoming calls to be forwarded (by speed call) to an external number.
252	ARS Enable	This option enables the ARS feature.
253	ARS Interchangeable Office Code Enable	Allows area and office codes to be used interchangeably.

TABLE 2-1 (CONT'D)  
SYSTEM OPTIONS

Option Number	Option	Description
254	MITEL Printer Condensed SMDR Print	This option when used with the MITEL printer will condense the printout from 132 to 88 characters.
255	Printer Transmit Additional Nulls	This option allows the transmission of additional nulls to the printer.
256	Range Programming Enable	This option enables the Range Programming feature.
257	Hands-Free Enable	This option enables the Hands-Free feature.
258	External Call - Forwarding Enable	This option enables the External Call - Forwarding feature.
259	Call Forwarding Don't Answer Time-Out 10 s	This option limits the Call Forwarding Don't Answer Time-Out to 10 seconds.
260	Customer Printout Enable	This option allows the Customer RAM data to be output in a logical format on a printer.
261	Serial Call Override Flash Button	This option allows both the Guest Room feature and the Serial Call feature to be used in the same system. This is done by enabling the Flash button as the Serial Call button.
262	Data DeMultiplexer Enable	This option allows the RS232 information to be output to four different recording devices.
263	Music on Hold Disable	If music on hold is not provided, this option should be selected.
264	ARS: Return Dial Tone	If this option is selected, dial tone will be returned after dialing the ARS code. This will encourage the user to continue dialing, after the ARS code has been dialed.
265	Final Ring Time-Out 1 Minute	If this option is selected, the ringing time-out will be reduced to 1 minute (from 5 minutes).
266	Digit Translation Plan 1	If this option is selected the digit: 1 produces 2 pulses, 2 produces 3 pulses, 3 produces 4 pulses, 4 produces 5 pulses, 5 produces 6 pulses, 6 produces 7 pulses, 7 produces 8 pulses, 8 produces 9 pulses, 9 produces 10 pulses, 0 produces 1 pulse.

TABLE 2-1 (CONT'D)  
SYSTEM OPTIONS

Option Number	Option	Description
267	Digit Translation Plan 2	If this option is selected the digit: 1 produces 9 pulses, 2 produces 8 pulses, 3 produces 7 pulses, 4 produces 6 pulses, 5 produces 5 pulses, 6 produces 4 pulses, 7 produces 3 pulses, 8 produces 2 pulses, 9 produces 1 pulses, 0 produces 1 pulse.
268	Digit Translation Plan 3	If this option is selected the digit: 1 produces 10 pulses, 2 produces 9 pulses, 3 produces 8 pulses, 4 produces 7 pulses, 5 produces 6 pulses, 6 produces 5 pulses, 7 produces 4 pulses, 8 produces 3 pulses, 9 produces 2 pulses, 0 produces 1 pulse.
269	ARS Dial Tone Time-Out 5 seconds	If this option is selected, "Dial 0" long distance calls are subject to a 5 second time-out (on first digit zero).
270	ARS Dial Tone Time-Out 10 seconds	If this option is selected, "Dial 0" long distance calls are subject to a 10 second time-out (on first digit zero).

TABLE 2-2  
SYSTEM OPTION CONFLICTS

The following System Options are mutually exclusive, i.e. they cannot be simultaneously enabled on the same PABX.

- 105 and 229 Outgoing Trunk Camp-On & Special ANI Feature.
- 106 and 229 Outgoing Trunk Callback & Special ANI Feature.
- 106 and 230 Outgoing Trunk Callback & Account Code Enable.
- 113 and 132 Tenant Service & Controlled Outgoing Restriction Setup.
- 113 and 134 Tenant Service & Controlled Station-to-Station Restriction Setup.
- 113 and 156 Tenant Service & Message Registration Enable.
- 113 and 172 Tenant Service & GUEST ROOM Button.
- 113 and 173 Tenant Service & ROOM STATUS Enable.
- 113 and 190 Tenant Service & Automatic Wake-Up Enable.
- 113 and 205 Tenant Service & Identified Trunk Group Enable.
- 114 and 132 Tenant Service - Separate Consoles & Controlled Outgoing Restriction Setup.
- 114 and 134 Tenant Service - Separate Consoles & Controlled Station-to-Station Restriction Setup.
- 114 and 156 Tenant Service - Separate Consoles & Message Registration Enable.
- 114 and 172 Tenant Service - Separate Consoles & GUEST ROOM Button Enable.
- 114 and 173 Tenant Service - Separate Consoles & Room Status Enable.
- 114 and 190 Tenant Service - Separate Consoles & Automatic Wake-Up Enable.
- 114 and 205 Tenant Service & Identified Trunk Group Enable.
- 114 and 236 Tenant Service - Separate Consoles & Customer Range and Tenant Programming Enable.
- 121 and 172 Attendant Serial Call & GUEST ROOM Button Enable.
- 121 and 173 Room Status Enable & Attendant Serial Call.
- 137 and 138 Message Waiting Setups (lamp or bell).
- 191 and 203 Automatic Wake-Up Print & Traffic Measurement Polling.
- 193 and 203 Room Audit Enable & Traffic Measurement Polling.
- 194 and 203 Message Register Print & Traffic Measurement Polling.
- 195 and 203 Message Register and Message Waiting Change Print Enable & Traffic Measurement Polling.
- 203 and 204 Traffic Measurement Polling & Traffic Measurement Autoprint.
- 205 and 229 Identified Trunk Group Enable & Special ANI Feature.
- 207 and 229 Printer Carriage Return Delay & Special ANI Feature.
- 220 and 229 Station Message Detail Recording: Outgoing Calls & Special ANI Feature.
- 221 and 229 Station Message Detail Recording: Incoming Calls & Special ANI Feature.

In addition to the above system options, some console service features are mutually exclusive. These features are listed below:

- ROOM RESTRICT and NIGHT 2
- ROOM STATUS and NIGHT 2
- CALL BLOCK and HOLD 4
- SERIAL CALL and GUEST ROOM

NOTE: The Room Restriction and Room Status features utilize the same button, but are not mutually exclusive, as the Room Status feature can be arranged to include the Room Restriction function, if System Option 132 is selected.

### Class-of-Service Options

**2.04** Each system may contain up to 16 different Classes Of Service (COS). The COS defines which of the available options (Table 2-3) are active, and therefore available for use by any extensions assigned that COS.

**2.05** The individual Classes of Service (COS) are selected by the console keys as described below:

- **COS DEFINE.** This key selects the Class-Of-Service program which permits changes to be made to any of the 16 individual COS. The entry made after selecting the program identifies which COS is to be modified.
- **OPTION.** The code entered (Table 2-3), after pressing the OPTION key, defines the extension option which is to be added or removed from the COS specified.
- **ADD.** Add the option to this COS.
- **DELETE.** Remove the option from the COS.
- **CANCEL.** If, after entering a number of codes for a COS, an error is discovered, the new entries may be removed from the system by pressing the CANCEL key.
- **ENTER.** After all entries have been made for the COS, the entries may be transferred to permanent storage by pressing the ENTER key.

### Feature Access Codes

**2.06** A number of features (Table 2-4) require access codes to allow the extension users to select and use the features. Each feature access code must be unique within the system. The feature access codes are programmed from the console keys as described below:

- **FEATURE.** This key selects the feature program and allows the access codes to be defined. The number dialed (Table 2-4),

after pressing the FEATURE key, specifies the feature to which the access code is to be assigned.

- **ACCESS CODE.** After pressing this key, the number dialed (1 to 4 digits) is assigned as the access code of the feature selected. The system, automatically, checks to see if the code is assigned to any other equipment or feature within the system, and if a match is found, displays an error message.
- **CANCEL.** The access just assigned to a feature may be removed by pressing the CANCEL key. The new access code may be assigned immediately.
- **DELETE.** Pressing this key deletes the access code assigned to the feature, rendering the feature inoperative.
- **ENTER.** Transfers all new entries to permanent memory.

### Extensions

**2.07** The extension program allows all data associated with extensions to be specified, changed, or removed from the system memories. The extension program is selected by the console keys as described below:

- **TENANT.** The number, 1 to 4, entered after pressing the TENANT key, specifies the tenant for which the extensions are being programmed, if the system is to be used as a multi-tenant system. If the system is to be used by a single tenant, the TENANT key must not be pressed.
- **EXTN.** Pressing this key enables the extension program, which allows new data to be entered or existing data to be changed or removed.
- **EQPT NUMBER.** The number (1-112, 161-256), entered after pressing the EQPT NUMBER key, defines the equipment number of the line circuit serving the extension (Fig. 2-1).

TABLE 2-3  
CLASS OF SERVICE OPTIONS

Option Number	Option	Description
33	Automatic Callback	Allows Automatic Callback - Busy and Automatic Callback - Don't Answer. See system option Outgoing Trunk Callback.
34	Call Forwarding - Busy	Allows Call Forwarding - Busy.
35	Call Forwarding - Don't Answer	Allows Call Forwarding - Don't Answer.
36	Call Forwarding - Follow Me	Allows Call Forwarding - Follow Me.
37	Call Park	Allows Call Park. See "Park Recall" system options.
38	Never a Forwardee	Prevents calls being forwarded to this line.
39	Directed Call Pickup	Allows Directed Call Pickup - this is required for remote access of Call Park.
40	Executive Busy Override	Allows Executive Busy Override.
41	Data Security	Provides security against any audio intrusion.
42	Station Override Security	Provides security against Executive Busy Override.
43	Inward Restriction (DID)	Denies Direct-In-Dial calls.
44	Originate Only	Denies all incoming calls.
45	Receive Only	Denies all outgoing calls.
46	Flash Disable	Inhibits recognition of switchhook flash.
47	Never a Consultee	Denies incoming calls that originated from a Consultation Hold.
48	Broker's Call	Allows Broker's Call. Denies transfer and add-on. Cannot be provided together with Station Conference, or Flash for Attendant.
49	Station Conference	Allows Station Controlled Conference.
50	Meet-Me Conference	Allows access to Meet-Me Conference.
51	Camp-On	Allows Station Camp-On. See System Option "Outgoing Trunk Camp-On".
52	Do Not Overflow	Prevents an extension from accessing trunk groups via overflow.

TABLE 2-3 (CONT'D)  
CLASS OF SERVICE OPTIONS

Option Number	Option	Description
53	Pager Access	Allows access to both paging amplifiers
54	TAFAS Access	Allows Trunk Answer From Any Station access.
55	Hold Pickup	Allows access to the Hold Pickup feature.
56	Account Code Access	Allows an extension to use an account code on trunk calls.
57	Manual Line	Routes all originating calls directly to the attendant for completion.
58	Contact Monitor	Allows the line to be used for contact monitoring and to call the attendant upon detection of contact closure.
59	Non-CO Trunk via Attendant Inhibit	Denies access to Non-CO trunks via the attendant.
60	CO Trunks via Attendant Inhibit	Denies access to CO trunks via the attendant.
61	No Dial Tone	Denies dial tone to originating calls from incoming tie-lines.
62	Flash For Attendant	Provides automatic connection to the attendant console when the switchhook is flashed. (Attendant Transfer) Cannot be provided together with Broker's Call, Consultation Hold, Transfer and Add-On, or Station Conference.
63	H/M Stn-Stn Restrict Applies	Allows controlled station-to-station restriction to apply, when activated by the attendant. See system option "Controlled Station-to-Station Restriction".
64	Message Register	Allows the system to keep count of the local call units made from this extension.
65	Trunk Group 1	Allows access to individual trunk groups.
66	Trunk Group 2	Allows access to individual trunk groups.
67	Trunk Group 3	Allows access to individual trunk groups.
68	Trunk Group 4	Allows access to individual trunk groups.
69	Trunk Group 5	Allows access to individual trunk groups.
70	Trunk Group 6	Allows access to individual trunk groups.



TABLE 2-3 (CONT'D)  
CLASS OF SERVICE OPTIONS

Option Number	Option	Description
71	Trunk Group 7	Allows access to individual trunk groups.
72	Trunk Group 8	Allows access to individual trunk groups.
73	Trunk Group 9	Allows access to individual trunk groups.
74	Trunk Group 10	Allows access to individual trunk groups.
75	Trunk Group 11	Allows access to individual trunk groups.
76	Trunk Group 12	Allows access to individual trunk groups.
77	Message Waiting Applies	Allows the attendant to set a message waiting indication at the extension.
78	Room Do Not Disturb Setup Enable	Allows the extension user to set up and cancel Do Not Disturb for the extension - by dialing appropriate access codes.
79	Call Hold and Retrieve Access	Allows the extension access to the Call Hold and Retrieve feature.
80	Room Status Applies	Allows the Room Status of the extension to be displayed at the attendant console.
81	Call Forwarding System Inhibit	The system Call Forwarding options 149 and 150 are inactive on extensions with this Class-Of-Service option.
82	Alarm Call Setup Enable	Allows either the extension to change or cancel its own wake-up time.
83	Forced Account Code Entry	An extension, with this option in its COS, must dial a 1- to 12-digit Account Code before dialing a client's number.
84	No SMDR Record Applies	An extension with this option in its COS will not be recorded by Station Message Detail Recording.
85	Speed Call Table 1 & 2 Access	Allows access to common-use Speed Call Tables specified.
86	Speed Call Table 3 & 4 Access	Allows access to common-use Speed Call Tables specified.
87	Speed Call Table 5 & 6 Access	Allows access to common-use Speed Call Tables specified.
88	Speed Call Table 7 & 8 Access	Allows access to common-use Speed Call Tables specified.

TABLE 2-3 (CONT'D)  
CLASS OF SERVICE OPTIONS

Option Number	Option	Description
89	Speed Call Table 9 & 10 Access	Allows access to common-use Speed Call Tables specified.
90	Speed Call Table 11 & 12 Access	Allows access to common-use Speed Call Tables specified.
91	Speed Call Table 13 & 14 Access	Allows access to common-use Speed Call Tables specified.
92	Speed Call Table 15 & 16 Access	Allows access to common-use Speed Call Tables specified.
93	Speed Call Table 17 & 18 Access	Allows access to common-use Speed Call Tables specified.
94	Cannot Dial a Trunk After Flashing	An extension, with this option in its COS, will not be able to dial a trunk after flashing.
95	Incoming Trunk Rotary Dial Only	An incoming trunk, with this option in its COS, will ignore DTMF signalling.
96	ARS Restricted	An extension, with this option in its COS, will not have access to the last route selected by ARS.
97	External Call Forwarding Connect Enable	An extension must have this option in its COS, in order to have a call it makes to an extension with External Call Forwarding in effect completed.
98	Transfer with Privacy	An extension with this option in its COS will be able to: put a call on hold, dial a new number and consult privately or hang up and the call on hold and the new number will be connected.
99	Hands-Free Station	An extension with this option in its COS need not go off-hook to answer a call since it should be in the off-hook position.
100	ARS Allowed	An ARS user with this option will be able to access a Trunk Group, even though the user's COS was not enabled for that Trunk Group. This will occur when the ARS feature finds that the only Trunk Group free is not in the user's COS but will force a connection. This option must be enabled for an extension to use ARS.
101	Earth Ground Button	This option allows the use of a Earth Ground Button on an extension's telephone set. Note: A special line card is required when using this COS option.

TABLE 2-3 (CONT'D)  
OPTION CONFLICTS

45	Receive Only	and	58	Contact Monitor
46	Flash Disable	and	48	Broker's Call
46	Flash Disable	and	49	Station Conference
46	Flash Disable	and	62	Flash for Attendant
48	Broker's Call	and	49	Station Conference
62	Flash for Attendant	and	49	Station Conference
62	Flash for Attendant	and	48	Broker's Call

TABLE 2-4  
FEATURE ASSIGNMENTS

Feature Number	Description
1	Attendant Access
2	Callback - Don't Answer
3	Call Forwarding - Busy
4	Call Forwarding - Don't Answer
5	Call Forwarding - Follow Me
6	Call Park
7	Dial Call Pickup
8	Directed Call Pickup
9	Meet-Me Conference
10	Pager 1
11	Pager 2
12	Hold Pickup Access
13	Pager 1 and 2
14	TAFAS-All
15	TAFAS-1
16	TAFAS-2
17	TAFAS-3
18	Attendant Function
19	Maintenance Function
20	DID Attendant Access Code
21	Direct Inward System Access
22	Executive Busy Override (Single Digit)**
23	Callback - Busy (Single Digit)**
24	Room Do Not Disturb Setup and Cancel
25	Call Hold
26	Call Retrieve (Local)
27	Call Retrieve (Remote)
28	Room Status Update (Maid in Room)
29	Programming Security Code
30	Alarm Call
31	Account Code
32	Speed Call
33-42	Assign access codes features 33-42 for Trunk Group 1 if necessary
43	Customer Programming Security Code
44	ARS Access Code
45	Hands-Free Activation
46	Call Forwarding Busy/Don't Answer

\*\* First digit conflicts between these codes and other access codes are allowed. See Section MITL9105/9110-097-105-NA for complete description of feature operation.



- **EXTN NUMBER.** The 1, 2, 3 or 4 digit number entered after pressing the EXTN NUMBER key specifies the extension number of the telephone set being added or changed. This number must not conflict with other extension numbers or access codes. If non-conflicting single digit dialing is required, enter N#, where N is the single digit.
- **COS NUMBER.** The number (1-16) entered, after pressing the COS NUMBER key, specifies the Class Of Service, and therefore the features, that may be accessed by the extension. See 2.04 Class-of-Service Option.
- **TOLL DENY.** Each extension may be defined as TOLL ALLOWED - allowed to originate calls to the toll network; or TOLL DENIED - not allowed to make calls to the toll network. To make the extension TOLL ALLOWED, press the TOLL DENY key, then the DELETE key. To make the extension TOLL DENIED, press the TOLL DENY key, then the ADD key. The extension will be TOLL DENIED, only if the extension and the trunk group are TOLL DENIED. This allows Toll Denial on a trunk group basis if System Option 199 was enabled. See also Section MITL9105/9110-097-212-NA Multi-Digit Toll Control.
- **BUSY LAMP NUMBER.** After pressing this key, the number entered (1-200) defines the position (Fig. 2-2) of the busy lamp to be associated with the extension. If the extension is not to be assigned a busy lamp, no entry is required.
- **DELETE.** Pressing the DELETE key removes the existing busy lamp assignment.
- **PICKUP GROUP.** The system may hold up to 30 independent call pickup groups. An extension may be made a member of any group, by entering the pickup group number after pressing the PICKUP GROUP key. Any number of extensions may be assigned to a pickup group, but an extension may only be a member of one group at any time.

- **CANCEL.** Pressing the CANCEL key, prior to the operation of the ENTER key, removes any data entered during the foregoing Extension Program sequence.
- **ENTER.** Transfer all new data for the extension to permanent memory.

#### Hunt Groups

2.08 The system can hold up to 12 different hunt groups. Each hunt group may contain an unlimited number of members and be specified as:

- **TERMINAL HUNTING.** The hunt group sequence starts at the first equipment number and ends at the last number in the hunt chain. The call is completed at the first idle number encountered.
- **CIRCULAR HUNTING.** Hunting starts at the last equipment number reached and hunts over all members of the hunt group. The call is completed at the first idle number found.
- **SECRETARIAL HUNTING.** This is terminal hunting where the last number is common to two or more extension hunt groups.
- **DUAL NUMBER ACCESS.** An extension may be programmed to allow it to be accessed by two different numbers. The first number is assigned when programming the extension and the second number by programming a hunt group with the extension as the only member. The extension may therefore be accessed by dialing the extension number or the hunt group master number (see Section MITL9105/9110-097-105-NA Single Digit Dialing).

**Note:** When changing the list of members of a hunt group in any way, all members of the hunt group must be re-entered.

2.09 The following console keys are activated to program the hunt groups:

- **TENANT.** If multi-tenant service is to be selected, the number (1-4) entered after pressing the TENANT key, specifies the tenant for which the hunt groups are being

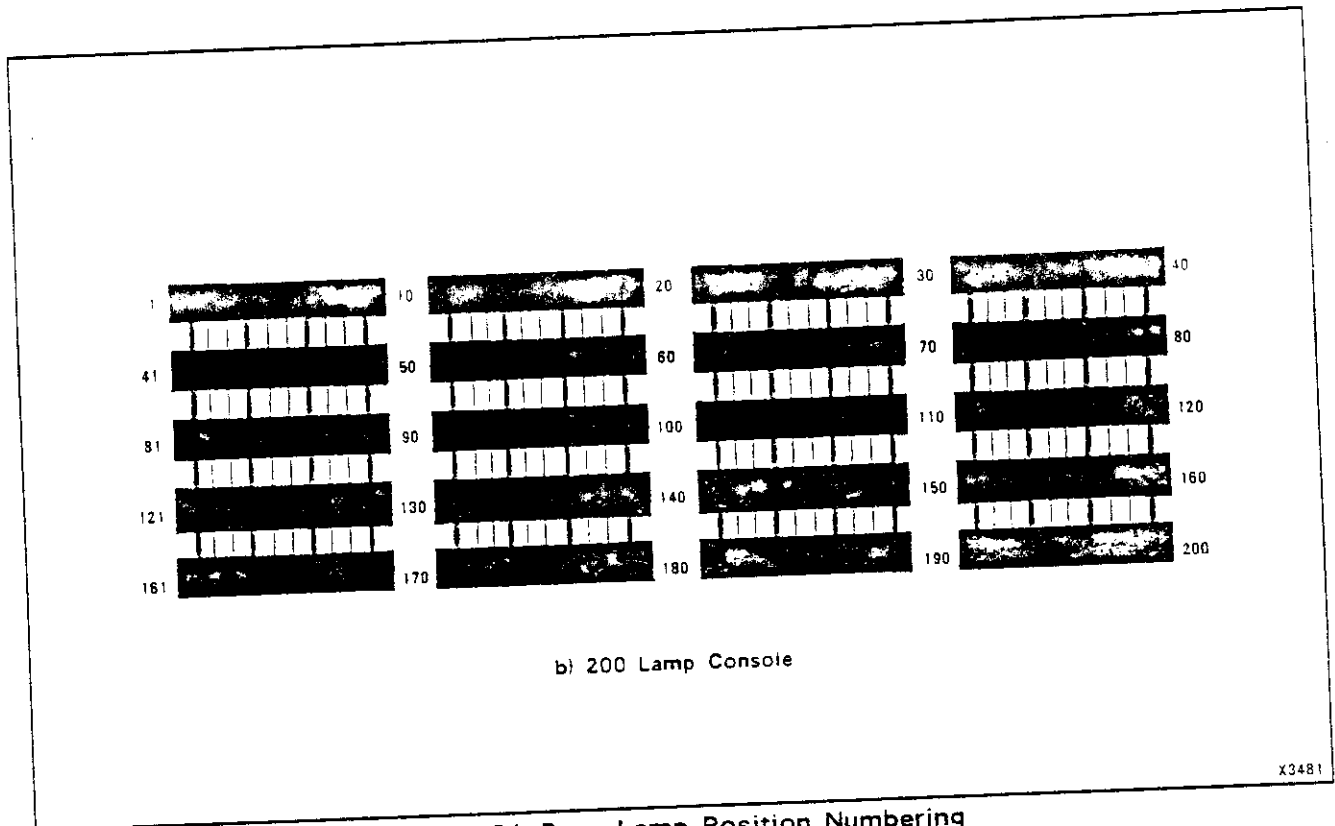


Fig. 2-2A Busy Lamp Position Numbering

programmed. If single tenant operation is to be used, the TENANT key must not be pressed.

- **HUNT GROUP.** Allows the hunt group required to be selected by dialing the hunt group number (1-12).
- **ACCESS CODE.** Allows the 1, 2, 3 or 4 digit code identifying the hunt group master number to be entered.
- **DELETE.** Pressing this key deletes the hunt group from the system memory.
- **EQPT NUMBER.** This key must be pressed before dialing the equipment number of each extension in the hunt group. If circular hunting is to be defined, the last entry in the hunt group must be the same as the first entry. Membership in a hunt group is mutually exclusive with "message registration" and "room status" for this extension.
- **CANCEL.** Deletes all new data entered associated with the hunt group.

- **ENTER.** Transfers all new data for the hunt group to permanent memory.

#### Trunks

2.10 This program allows the type console appearances, day and night assignment, COS and toll deny codes of each trunk to be specified.

2.11 The following console keys are employed to enter this program:

- **TENANT.** If the multi-tenant service is to be selected, the number (1-4) entered after pressing the TENANT key, specifies the tenant for which the hunt groups are being programmed. If single tenant operation is to be used, the TENANT key must not be pressed.
- **TRUNK.** Selects the trunk program
- **EQPT NUMBER.** The number entered (10-112; 162-256, even numbers only)

## SECTION MITL9105/9110-097-210-NA

specifies the equipment number of the trunk circuit serving this trunk (Fig. 2-1).

- **TYPE.** The code entered, defines the type of trunk being specified. (See MITL9105/9110-097-105-NA Features and Services Description for definition of VNL)

Code 1 - CO trunk + VNL  
Code 2 - DISA trunk + VNL  
Code 3 - DID trunk + VNL  
Code 4 - Dial-In tie trunk + VNL  
Code 5 - Non Dial-in tie trunk + VNL  
Code 6 - CCSA trunk + VNL  
Code 11 - CO trunk + NON VNL  
Code 21 - DISA trunk + NON VNL  
Code 31 - D ID trunk + NON VNL  
Code 41 - Dial-in tie trunk + NON VNL  
Code 51 - Non Dial-in tie trunk + NON VNL  
Code 61 - CCSA trunk + NON VNL

- **DELETE.** If this key is pressed, the information associated with this trunk is removed from the system memory.
- **BUSY LAMP NUMBER.** The number (1-200) defines the position (Fig. 2-2) of the busy lamp to be associated with this trunk. If the trunk is not to be assigned, a busy lamp no entry is required.
- **DELETE.** If this key is pressed, the busy lamp assignment for this trunk is deleted.
- **LDN NUMBER.** (Types 1, 5, 11, 51 only) This single digit entry defines the Listed Directory Number key (LDN 1, 2, 3 or 4) on the attendant console which is to be associated with the trunk. If the trunk is not to appear on the attendant console, no entry is required. DID trunk calls to the attendant always appear on LDN 4.
- **DAY NUMBER.** (Types 1, 5, 11, 51 only) The code entered for Day Number specifies any special assignments of the trunk during normal day time service. These assignments may be:
  - no assignment to bells, extensions or hunt groups, console appearance only (Default code #0)

- assigned to ring bell 1, code #1
- assigned to ring bell 2, code #2
- assigned to ring bell 3, code #3
- assigned to one extension - enter equipment number of extension
- assigned to a hunt group, codes 1 to 12
- **I/C.** (Types 3, 6, 31, 61 only) This two or three digit entry for DID or CCSA trunks defines the number of incoming digits, the number of digits to be absorbed; and the digit to be added to the incoming number after absorption.
- **NIGHT 1.** (Types 1, 5, 11, 51 only) This entry defines the assignment of the trunk during Night Service 1. Assignment is made in the same manner as for DAY NUMBER assignment.
- **NIGHT 2.** The entry defines the assignment of the trunk during Night Service 2. This assignment is made in the same manner as for DAY NUMBER assignment.
- **COS NUMBER.** (Types 2, 4, 21, 41 only) The number (1-16) entered, after pressing this key, specifies the Class of Service and therefore the features, that may be accessed by the dial-in trunk. See 2.04 Class-of-Service Option.
- **TOLL DENY.** (Types 2, 4, 21, 41 only) Each dial-in trunk may be defined as TOLL ALLOWED - allowed to originate calls to the toll network; or TOLL DENIED - not allowed to make calls to the toll network. To make the tie trunk TOLL ALLOWED, press the TOLL DENY key, then the DELETE key. To make the tie trunk TOLL DENIED, press the TOLL DENY key, then the ADD key. If System Option 199 is enabled, see also Section MITL9105/9110-097-212-NA Multi Digit Toll Control.
- **CANCEL.** Pressing this key, prior to the operation of the ENTER key, removes any data entered in the temporary storage.



- **ENTER.** Deletes previous data associated with this trunk and stores the new data.

### Trunk Groups

2.12 The trunk group program specifies the trunks forming the trunk group, the restrictions and options common to all trunks in the group. The trunk group may employ terminal or circular hunting (see 2.08). When making any change to the list of members of a trunk group, all members of the group must be re-entered. The following console keys are activated to program the trunk groups:

- **TENANT.** The number, 1 to 4, entered after pressing the TENANT key, specifies the tenant for which the extensions are being programmed, if the system is to be used as a multi-tenant system. If the system is to be used by a single tenant, the TENANT key must not be pressed.
- **TRUNK GROUP.** The number (1-12) entered specifies the trunk group to be set up or changed.
- **ACCESS CODE.** Allows the 1, 2, 3 or 4 digit code identifying the trunk group to be specified.
- **DELETE.** Pressing this key deletes the trunk group from the system memory.
- **TYPE.** The four digit code entered after pressing the TYPE key specifies the trunk group type parameters as detailed in Table 2-5.
- **TOLL DENY.** Each trunk group may be specified as TOLL ALLOWED - allowed to originate calls to the toll network, or TOLL DENIED - not allowed to make calls to the toll network. To make the trunk group TOLL ALLOWED, press the TOLL DENY key, then the DELETE key. To make the trunk group TOLL DENIED, press the TOLL DENY key, then the ADD key. Toll Denial is effective only when both the trunk group and the extension or dial-in trunk involved are TOLL DENIED. are ignored by the PABX. This prevents circumvention of the toll denial by dialing a fast valid digit before CO dial tone is received.

- **OVERFLOW.** The number entered (1-12) specifies the trunk overflow group number. If all trunks within the trunk group being defined are busy, any additional calls directed to the trunk group will be re-routed to the overflow group. Overflow arrangements which direct the callback to the original group must NOT be specified.
- **EQPT NUMBER.** This key must be pressed before dialing the equipment number (2-112; 162-256) of each trunk in the group. If circular hunting is to be defined, the last entry in the hunt group must be the same as the first entry. If circular hunting is not required, the trunk group is terminal hunting (see 2.08).
- **CANCEL.** Pressing the CANCEL key removes all new data entered for the trunk group, leaving any existing data unchanged.
- **ENTER.** Removes all old data associated with the trunk group and transfers the new data entered to permanent memory.

## 3. PROGRAMMING

### General

3.01 After all installation procedures have been completed in accordance with Section MITL9105/9110-097-200-NA, the system should be programmed as detailed in the MITEL Action Procedures (MAP's) contained in Appendix 1 and 2.

### Error/Confirm Codes

3.02 During standard system programming, the console DESTINATION display may show "error" or "confirm" codes, with the meanings indicated in Tables 3-1 and 3-2 respectively. These tables also indicate required action when the code is displayed. In the extended programming mode, errors may also be displayed at the console. Tables 3-3 and 3-5 show the meanings of these errors.

### Attendant Function Access Codes

3.03 Table 3-6 is a listing of the attendant function access codes. To select any of the

TABLE 2-5  
TRUNK GROUP TYPE CODES

First Digit (Note 1)	Second Digit	Third Digit (Note 2)	Fourth Digit
1 No supervision	1 No Message Register	+1 Dial pulse, no wait for dial tone	1 CO trunk
2 Answer supervision	2 Message Register	+2 Dial pulse, wait for dial tone	2 Non CO trunk
3 Toll Reversal	3 SMDR Enable and no Message Register	++3 DTMF, no wait for dial tone	**3 Identified Trunk Group (Type XX13) only is valid)
4 Outgoing audio inhibited until answer supervision	4 SMDR Enable and Message Register Enable	++4DTMF, wait for dial tone	

- + If extensions are DTMF, the trunk will convert to dial pulse. Early line split is not provided.  
 ++ Trunks will repeat DTMF or dial pulse signals unless outgoing audio is inhibited.

**Note 1**

- If answer supervision is not required (or not provided by the CO), then use 1- (No supervision).
- If trunks provide answer supervision and tandem trunking or message registration is used, then specify 2, (Answer Supervision).
- If supervision is used to indicate toll calls, and this feature is required, then use 3- (Toll supervision).
- If audio cut-through on tie-trunk tandem calls is required only after receipt of answer supervision, then use 4- (Outgoing audio inhibit until answer supervision). In addition the audio is inhibited until timed out or unless a # is dialed.

**Note 2**

- If "wait for dial tone" is selected, then any digits dialed prior to receipt of CO dial tone

attendant functions, the access code for Feature 18 must have been dialed. The code \* is used in Table 3-6.

#### **Maintenance Function Access Codes**

3.04 Table 3-7 lists the maintenance function access codes. To select any of the maintenance functions, the access code assigned for the maintenance function must be dialed (Feature

Number 19). The code 555 is used in Table 3-7, for the maintenance code and may be dialed from the test line or console.

#### **Time-Out Information**

3.05 During programming, it may be necessary to know the time-out information with regard to certain functions. Table 3-8 is such a listing of the time-out information.

TABLE 3-1  
PROGRAMMING ERROR CODES

Error Code	Cause	Key Affected	Key Flashing	Meaning	Action Required
E0	Invalid key pressed.	ALL	NONE	The last key pressed is invalid at this time.	Check procedure and press correct key.
E1	Invalid number.	ALL	None	The number entered is out of range or contains corrupted data.	Press key associated with entry and re-entry number.
E2	Key other than ENTER or CANCEL pressed.	LAMP TEST TENANT, OPTION COS DEFINE, FEATURE EXTN NUMBER, TRUNK HUNT GROUP TRUNK GROUP NEXT, EQPT NUMBER	ENTER, CANCEL	An attempt was made to leave the current mode, after some parameters were changed, but before ENTER or CANCEL was pressed. ENTER may be used to write the new programming information back to the non-volatile RAM, or use CANCEL to ignore all programming changes made, since the last time ENTER was pressed.	Press ENTER to transfer the data to permanent or CANCEL to remove the data from the temporary store.
E3	Access code has not been entered.	HUNT GROUP TRUNK GROUP	ACCESS CODE	Attempting to enter members into a hunt or trunk group before an access code has been assigned to the group.	Press ACCESS CODE key and enter required access code.
E4	The extension number or access code entered is already assigned.	EXTN, ACCESS CODE	None	The extension number or access code entered is already assigned to an extension, feature, hunt group or trunk group. In Trunk mode, an attempt is made to delete a member of a trunk group. Equipment Numbers desired must be entered. In Trunk Group mode, an attempt is made to place a trunk into a trunk group while that trunk is currently programmed into another trunk group. Callback and Executive Override conflict, i.e., trying to enter a Callback code while same code is assigned to Executive Busy Override and vice-versa.	Check code entered. 1 If code is correct, terminate entry, remove other appearance of code and re-enter all new data. 2 If code is incorrect, press key associated with entry and re-enter extension number or access code.
E5	Number entered contains incorrect number of digits or conflicting option enabled in this COS.	EXTN NUMBER ACCESS CODE	None	The extension number or access code is in conflict with the existing numbering plan. Attempting to add an option to a COS in which a conflicting option is enabled. Attempting to add a System Option when a conflicting option exists.	Check entry. Press key associated with entry and re-enter number.

TABLE 3-1 (CONT'D)  
PROGRAMMING ERROR CODES

Error Code	Cause	Key Affected	Key Flashing	Meaning	Action Required
E6	Incorrect equipment number entered.	EQPT NUMBER	None	Attempting to assign an equipment number that is: - undefined - defined as a trunk to an extension hunt group or extension - defined as an extension to a trunk group or a trunk - an extension with message registration to hunt group or pickup group. An equipment number assigned to an extension must be deleted as an extension, before being programmed as a trunk. An equipment number assigned to a trunk must be deleted as a trunk, before being programmed as an extension.	Remove conflicting option (a) Assign equipment number correctly (b) Enter new equipment number
E7	System is busy.	ENTER, TENANT	None	(a) Attempting to initialize a system while PABX is in use. (b) Attempting to change data of an extension or trunk while that extension or trunk is in use. It must be idle or busied-out.	(a) Wait until system is idle (b) Wait until extension or trunk is idle
	Extension has a message register that is not zeroed or has a message waiting, or has Do Not Disturb set.	ENTER	None	- a valid message register exists for this extension - extension has a message waiting or Do Not Disturb set	Zero message register, reset message waiting or Do Not Disturb and reprogram

TABLE 3-1 (CONT'D)  
PROGRAMMING ERROR CODES

Error Code	Cause	Key Affected	Key Flashing	Meaning	Action Required
E8	Trunk or equipment number already assigned.  In Tenant Service, pressing the Hunt Group key when all hunt groups are assigned to other tenants. In Tenant Service, pressing the Trunk Group key when all trunk groups are assigned to other tenants. In Tenant Service, attempting to put an extension assigned to one tenant into a hunt group of a different tenant. In Tenant Service, attempting to put a trunk assigned to one tenant into a trunk group of a different tenant. In Tenant Service, entering a hunt group number assigned to a different tenant (after pressing HUNT GROUP). In Tenant Service, Trunk Group Programming, selecting an overflow group that belongs to another tenant. In Tenant Service, entering a trunk group number assigned to a different tenant (after pressing TRUNK GROUP).	ENTER	None	Attempting to assign a trunk or equipment number to more than one tenant at the same time.	(a) Enter proper trunk or equipment number (b) Press ENTER
E9	Non-Volatile RAM error	ENTER	None	Ones and Zeros test failed	
E021 -22	At Power Up		None		
E022 -22	At Power Up		None		Non-Volatile RAM must be initialized and/or reprogrammed
E023 -22	At Power Up		None	RAM/COS card switches not set correctly	Go to Section MITL 9105/9110-097-200-NA

TABLE 3-2  
STANDARD CONFIRM CODES

Confirm Code	Cause	Key Affected	Flashing Lamp	Action Required
C0	Attempting to assign an equipment number for an extension to a slot containing a trunk card	EQPT NUMBER	CONFIRM	Check assignment- - if correct, press CONFIRM key. Equipment number entered is accepted as the number for the equipment type being programmed. All data associated with the original appearance of the equipment number is removed. - if incorrect, press EQPT NUMBER and re-enter new equipment number.
C0	Attempting to assign an equipment number for a trunk to an empty slot or a slot containing an extension card	EQPT NUMBER	CONFIRM	Check assignment- - if correct, press CONFIRM key. The extension number entered is accepted as the extension number for the equipment being defined. All data associated with the original appearance of the extension number is removed. - If incorrect, press EQPT NUMBER and re-enter extension number.
C1	Attempting to assign an extension that already exists	EXTN NUMBER	CONFIRM	Check assignment- - if correct, press CONFIRM key. Busy lamp assignment is accepted for this equipment. All data associated with original assignment is removed. - If incorrect, press BUSY LAMP and re-enter busy lamp assignment.
C2	The busy lamp assignment already exists	BUSY LAMP	CONFIRM	Check assignment- - if correct, press CONFIRM key. Busy lamp assignment is accepted for this equipment. All data associated with original assignment is removed. - If incorrect, press BUSY LAMP and re-enter busy lamp assignment.

AUTOMATIC ROUTE SELECTION CONFIRM CODE

Error	Applies to:	Meaning
C6	Area Code	A request has been made to delete all entries in a table.

TOLL CONTROL PROGRAMMING CONFIRM CODES

Error	Applies to:	Meaning
C5	Control Plan mode Table mode	An attempt was made to assign a table which is currently assigned elsewhere. Pressing the confirm key will de-assign the table from wherever it was previously assigned to assign it to the specified place.
C6	Table Mode	A request has been made to delete all entries in a table. If CONFIRM is pressed all entries will be de-assigned. The old data in the non-volatile RAM will not be destroyed until the ENTER key is pressed, and the table itself can be reprogrammed as desired before the ENTER key is used.

TABLE 3-3  
EXTENDED PROGRAMMING ERROR CODES - TOLL CONTROL

Error	Applies to:	Meaning
E0	All modes	Invalid key pressed. Consult MAP for correct procedure. System Option 199 may not be enabled.
E1	Trunk Group mode Control Plan mode	Number is not within the range of the parameter being defined. Re-enter parameter key defined.
E2	All modes	An attempt was made to leave the current mode after some parameters were changed but before ENTER or CANCEL was pressed. ENTER may be used to write the new programming information back to the non-volatile RAM, or use CANCEL to ignore all programming changes made since the last time ENTER was pressed.
E3	Control Plan mode	The number entered is not valid for the current configuration. Re-enter a number which exists for the configuration of the extended non-volatile customer RAM.
E4	Table mode	The table entry code is invalid for the table programmed. This occurs in the following situation: 1. A code of more than 3 digits in the length for an 800-entry or 20-range table. 2. A code not in the range of 200-999 for an 800-entry table. 3. A code which already exists or a code which would be ambiguous in conjunction with the existing table entries, for a 4-entry table.
E5	Table mode	The table is full and cannot hold the entry.
E7	Configuration mode	Configuration is not allowed because the Tone Control card switches are not 7776 or the system is not idle.
E9	Configuration mode	A hardware failure was detected while clearing the extended customer non-volatile RAM.



TABLE 3-4  
EXTENDED PROGRAMMING ERROR CODES - SPEED CALL

Error Code	Key Involved	Explanation
E1	EQPT NUMBER	The Equipment Number entered is outside the range of valid numbers. Check procedures and press key, then redial proper digits.
E1	ACCESS NUMBER	The Access Number entered is not the first of the five-number group. Enter the proper Access Number.
E1	NUMBER REDIAL	An invalid Number Redial value was entered. Enter the proper redial value.
E2	All modes	An attempt was made to leave the current mode after some parameters were changed but before ENTER or CANCEL was pressed. ENTER may be used to write the new programming information back to the non-volatile RAM, or use CANCEL to ignore all programming changes made since the last time ENTER was pressed.
E3	TABLE	The Table number entered is not consistent with that allowed for the current configuration of the extended non-volatile RAM. Check the configuration number.
E4	ACCESS NUMBER	An attempt was made to enter an Access Number for a common-use table.
E4	NUMBER REDIAL	An attempt was made to enter a Number Redial digit for a common-use table.
E5	ACCESS NUMBER	The Access Number entered already exists for another table assigned to the same equipment number.
E5	NUMBER REDIAL	Number Redial already exists for another table assigned to the same equipment number (only 1 Number Redial attribute per user is allowed).
E6	SPEED CALL	The configuration of the extended non-volatile RAM does not include the Speed Call feature.

TABLE 3-5  
EXTENDED PROGRAMMING ERROR CODES - AUTOMATIC ROUTE SELECTION

Error Code	Key Involved	Explanation
E0	All modes	Invalid key pressed.
E1	Area Code Table mode Office Code Table mode Routing Table mode Local Area mode Table Quantity mode	Number is not within range.
E2	All modes	An attempt was made to leave the current mode after parameters were changed, but before ENTER or CANCEL was pressed.
E3	Office Code mode	The Office Code table number is not valid for this configuration.
E4	Routing Table mode	An attempt was made to enter a trunk group number that is not defined.
E5	Office Code Table mode	The 9-entry Office Code Table is full and cannot hold the entry.
E6	Routing Table mode	Schedule A hours and Schedule B hours are not mutually exclusive.
E7	Configuration mode	Configuration is not allowed because the Tone Control card switches are not 7776 or the system is not idle.
E9	Configuration mode	A hardware failure was detected while clearing the extended customer non-volatile RAM.

TABLE 3-6  
ATTENDANT FUNCTION ACCESS CODES

These codes assume the use of \* as the Attendant Function code (Feature number 18).

To cancel all call forwarding:

- a) Dial \*1
- b) Dial #
- c) Press the RELEASE button

+ To make flexible night service assignments:

- a) Dial \* 3
- b) Dial individual trunk access number (equipment number)
- c) Press NIGHT 1 or NIGHT 2
- d) Dial extension number
- e) Press the RELEASE button

To cancel all system callbacks:

- a) Dial \* 4
- b) Dial #
- c) Press the RELEASE button

To set the clock:

- a) Dial \* 5
- b) Dial time (hour plus minutes)
- c) Dial \* for p.m. or # for a.m.
- d) Press the RELEASE button

To make Trunk Group attendant access only:

- a) Dial \* 6
- b) Dial Trunk Group (1 through 10)
- c) Dial \*
- d) Press the RELEASE button

To make a trunk group extension and attendant access:

- a) Dial \* 6
- b) Dial Trunk Group (1 through 10)
- c) Dial #
- d) Press the RELEASE button

To change the Direct Inward System Access code:

- a) Dial \* 7
- b) Dial DISA code
- c) Press the RELEASE button

To cancel a minor alarm: (Note 1)

- a) Dial \* 8
- b) Dial #
- c) Press the RELEASE button

+ To busy out an individual trunk:

- a) Dial \* 9
- b) Dial individual trunk access number (equipment number)
- c) Dial \*
- d) Press the RELEASE button

+ To de-busy an individual trunk:

- a) Dial \* 9
- b) Dial individual trunk access number (equipment number)
- c) Dial #
- d) Press the RELEASE button

+ To change the status of all occupied clean rooms to occupied and needs cleaning:

- a) Dial \* 10
- b) Dial \*
- c) Press the RELEASE button

+ To change the status of all occupied rooms in the need of cleaning to occupied clean: (Note 2)

- a) Dial \* 10
- b) Dial #
- c) Press the RELEASE button

To set up call forwarding:

- a) Dial \* 11nnn, where nnn is the extension number of the forwarding extension
- b) Dial call forwarding code (1-4)
- c) Dial nnn, where nnn is the number to which the calls are to be forwarded
- d) Press the RELEASE button

TABLE 3-6 (CONT'D)  
ATTENDANT FUNCTION ACCESS CODES

To cancel call forwarding for an extension:	+ To display the system identity:
a) Dial * 11nnn, where nnn is the extension number of the forwarding extension	a) Dial * 17
b) Dial #	b) Press the RELEASE button
c) Press the RELEASE button	+ To change the system identity:
+ To busy out an extension:	a) Dial * 17 nnn (where nnn is a 1 to 3 digit ID, 0-999)
a) Dial * 12nnn, where nnn is the number of the extension to be busied out	b) Press the RELEASE button
b) Dial *	+ To print the "room status" audit (Note 2)
c) Press the RELEASE button	a) Dial * 18
+ To de-busy an extension:	b) Press the RELEASE button
a) Dial * 12nnn, where nnn is the number of the extension to be de-busied	To print all speed call information:
b) Dial #	a) Dial * 19 *
c) Press the RELEASE button	b) Press the RELEASE button
+ To suspend the printer:	To print all customer accessible RAM data:
a) Dial * 14 *	a) Dial * 19 #
b) Press the RELEASE button	b) Press the RELEASE button
+ To purge and ignore the printer:	To access an individual trunk:
a) Dial * 14 00	a) Dial * 20
b) Press the RELEASE button	b) Dial individual trunk access number (equipment number)
+ To enable the printer:	c) Dial *
a) Dial * 14 #	d) Press the RELEASE button
b) Press the RELEASE button	To force-release an individual trunk:
To change the date:	a) Dial *20
a) Dial * 15 and 3 or 4 digit date (one or two digit month, two digit day)	b) Dial individual trunk access number (equipment number)
b) Press the RELEASE button	c) Dial # #
+ To print the room audit (registers):	d) Press the RELEASE button
a) Dial * 16	
b) Press the RELEASE button	

Note 1: The errors will be sequentially stacked in the memory and may be recalled sequentially (most recent first) by repeating the above procedure.

Note 2: Printer starts after RELEASE button is pressed

+ Requires system option programming

TABLE 3-7  
MAINTENANCE FUNCTION ACCESS CODES

To select any of the functions, the access code assigned for the maintenance function must be dialed (Feature Number 19). The code 555 is used in the following part for the maintenance code and may be dialed from the test line or console.

Clear all errors:

- a) Dial 555 + 1

Direct trunk or station access:

- a) Dial 555 + 2
- b) Dial individual equipment number (3-digit equipment number for trunk or station)

Busy out of a receiver:

- a) Dial 555 + 3
- b) Dial equipment number of receiver

Busy out of a speech path:

- a) Dial 555 + 33
- b) Dial speech path number (01-31)

De-busy a receiver:

- a) Dial 555 + 4
- b) Dial equipment number of receiver

De-busy a speech path:

- a) Dial 555 + 43
- b) Dial speech path number (01-31)

Initialize card slot:

- a) Dial 555 + 5
- b) Dial card slot number (01-17, 31-42)

+ System reset:

- a) Dial 555 + 6

To initiate system dump (from test line):

- a) Dial 555 + 7 and hang up
- b) Go off-hook
- c) Dial 555 + 8 + # (or 2)

To initiate system dump (from console):

- a) Dial 555 + 7
- b) Dial \* 14 #

To suspend printer (from the test line):

- a) Dial 555 + 8 + \* (or 1), hang up

To enable printer (from the test line):

- a) Dial 555 + 8 + # (or 2), hang up

+ To purge and ignore printer (from the test line):

- a) Dial 555 + 8 + 00, hang up

To print all RAM data (from the console):

- a) Dial 555 + 9
- b) Press the RELEASE button

To suspend the printer (from the console):

- a) Dial \* 14 \*
- b) Press the RELEASE button

To enable the printer (from the console):

- a) Dial \* 14 #
- b) Press the RELEASE button

To purge and ignore printer (from the console):

- a) Dial \* 14 00
- b) Press the RELEASE button

+ Requires System Option Programming

Notes

1. For Traffic Measurement Access Codes see MITL9105/9110-097-450-NA.

TABLE 3-8  
SYSTEM TIME-OUT INFORMATION

Description	Time-Out
Attendant Timed Recall (Don't Answer)	20 s, 30 s, or 40 s
Attendant Timed Recall (Camp-On)	20 s, 30 s, or 40 s
Attendant Timed Recall (Hold)	20 s, 30 s, or 40 s
Automatic Night Switching	20 s, 30 s, or 40 s
Dial Tone Time-Out	15 s
Interdigit Time-Out (Extensions)	15 s
Interdigit Time-Out (Trunks)	10 s
Lockout Time-Out	45 s
Callback Clear Time-Out	8 hours
Callback Don't Answer Reset	6 rings
Call Park Recall	2, 3 or 4 minutes
Call Hold Recall	2, 3 or 4 minutes
Call Forwarding - Don't Answer Time-Out	10 s, 20 s, 30 s, or 40 s
Switchhook Flash	Min. 200 ms Max. 0.7 s, 0.9 s, 1.1 s or 1.5 s
Ringing Time-Out	5 minutes, 1 minute programmable
Automatic Wake-Up Ringing	6 rings, 3 s each
Automatic Wake-Up Attempts	3 at 5 minute intervals

#### 4. Examples

##### Introduction

4.01 This part describes the steps required to program the SX-100 and SX-200 PABX's using the Installation Forms, and provides typical examples of completed Installation Forms.

##### 4.02 System Options

Step	Operation
1.	Press the OPTION button.
2.	Dial the number of the required option. (See Tables 2-1 and 2-2)
3.	Press the ADD button to add the option.
	OR
4.	Press the DELETE button to remove the option.
5.	Repeat steps 1, 2, and 3 above until all required options have been added or deleted.
	Press the ENTER button to enter all options into the memory.

OPTION		OPTION		OPTION	
OPTION NUMBER	OPTION NAME	OPTION NUMBER	OPTION NAME	OPTION NUMBER	OPTION NAME
100	DISCRIMINATING RINGING	129	ATTENDANT CO TRUNK CO TRUNK CONNECT ENABLE		
101	TRANSFER DIAL TONE	130	ATTENDANT CO TRUNK NON CO TRUNK CONNECT ENABLE		
102	FLEXIBLE NIGHT SERVICE	131	ATTENDANT NON CO TRUNK - NON CO TRUNK CONNECT ENABLE		
103	NIGHT SERVICE AUTOMATIC SWITCHING	132	CONTROLLED OUTGOING RESTRICTION SETUP		
104	TAFAS AVAILABLE DURING DAY	133	CONTROLLED STATION TO STATION RESTRICTION SETUP		
105	OUTGOING TRUNK CAMP ON	134	CONTROLLED STATION TO STATION RESTRICTION SETUP		
106	OUTGOING TRUNK CALLBACK	135	ATTENDANT F CODE SETUP ENABLE		
107	CAN FLASH IF TALKING TO AN INCOMING TRUNK	136	LIMITED DIAL TONE		
108	CAN FLASH IF TALKING TO AN OUTGOING TRUNK	137	MP (RING SETUP (J AMP))		
109	CAN FLASH IF TALKING TO A STATION	138	WAITING SETUP (BELL)		
110	CANNOT DIAL A TRUNK AFTER FLASHING	139	ATTENDANT TIMED RECALL CAMP ON 20 SEC		
111	CANNOT DIAL A TRUNK AFTER FLASHING IF HOLDING ON IN CONFERENCE WITH A TRUNK	140	ATTENDANT TIMED RECALL CAMP ON 40 SEC		
112	LOCKOUT ALARM ENABLE	141	ATTENDANT TIMED RECALL DONT ANSWER 20 SEC		
113	TENANT SERVICE SET AUTOMATICALLY WHEN TENANT SERVICE IS SELECTED WHEN PROGRAMMING	142	ATTENDANT TIMED RECALL DONT ANSWER 40 SEC		
114	TENANT SERVICE - SEPARATE CONSOLES	143	ATTENDANT TIMED RECALL HOLD 20 SEC		
115	VACANT NUMBER INTERCEPT TO ATTENDANT	144	ATTENDANT TIMED RECALL HOLD 40 SEC		
116	ILLEGAL ACCESS INTERCEPT TO ATTENDANT	145	NIGHT SERVICE TIME OUT 20		
117	DID/DIAL IN/CCSA VACANT/ILLEGAL INTERCEPT TO ATTENDANT	146	NIGHT SERVICE TIME OUT 40		
118	ATTENDANT CAMP ON	147	CALL FORWARDING DONT ANSWER TIMEOUT 20 SEC		
119	ATTENDANT CONFERENCE	148	CALL FORWARDING DONT ANSWER TIMEOUT 40 SEC		
120	ATTENDANT BUSY OVLTRIDE	149	CALL FORWARDING - BUSY (SYSTEM, DID, DIAL-IN TIE TRUNK, CCSA)		
121	ATTENDANT SERIAL CALL	150	CALL FORWARDING - DONT ANSWER (SYSTEM, DID, DIAL-IN TIE TRUNK, CCSA)		
122	BELL OFF ENABLE	151	PARK AND CALL HOLD RECALL 2 MINUTES		
123	PAGE BUTTON ENABLE	152	PARK AND CALL HOLD RECALL 4 MINUTES		
124	NEW CALL TONE ENABLE	153	END OF DIAL SIGNAL FOR OUTGOING TRUNKS #		
125	BOTH MODE STANDARD	154	24 HOUR CLOCK		
126	CALLBACK BUTTON ENABLE	155	FIRST DIGIT TOLL DENY		
127	TRUNK BUSY - OUT ENABLE	156	MESSAGE RESTRICTION ENABLE		
128	BOTH BUTTON ENABLE	157	MESSAGE REGISTRATION - GRUNT ADDITIONAL SUPERVISIONS		

EXAMPLE ONLY



SYSTEMS OPTION

OPTION NUMBER	OPTION NAME	OPTION NUMBER	OPTION NAME	OPTION NUMBER	DIAL OPTION NUMBER (1100-2700)	OPTION NUMBER	OPTION NAME	OPTION NUMBER	DIAL OPTION NUMBER (1100-2700)	ADD
158	MESSAGE REGISTRATION TIMER = 20 SECONDS	191	AUTOMATIC WAKE - UP PRINT	191		191	AUTOMATIC WAKE - UP PRINT	191		ADD
159	MESSAGE REGISTRATION TIMER = 40 SECONDS	192	AUTOMATIC WAKE - UP MUSIC ON HOLD	192		192	AUTOMATIC WAKE - UP MUSIC ON HOLD	192		
160	MESSAGE REGISTRATION MULTIPLIER = 4 UNITS	193	ROOM MESSAGE REGISTER AUDIT ENABLE	193		193	ROOM MESSAGE REGISTER AUDIT ENABLE	193		
161	MESSAGE REGISTRATION MULTIPLIER = 3 UNITS	194	ROOM STATUS AUDIT ENABLE	194		194	ROOM STATUS AUDIT ENABLE	194		
162	MESSAGE REGISTRATION MULTIPLIER = 2 UNITS	195	MESSAGE REGISTER & MESSAGE WAITING CHANGE PRINT ENABLE	195		195	MESSAGE REGISTER & MESSAGE WAITING CHANGE PRINT ENABLE	195		
163	MESSAGE REGISTRATION SURCHARGE = 8 UNITS	196	IGNORE PRINT ENABLE	196		196	IGNORE PRINT ENABLE	196		
164	MESSAGE REGISTRATION SURCHARGE = 7 UNITS	197	REMOTE SYSIF. RESET - PROTECTION OVERRIDE	197		197	REMOTE SYSIF. RESET - PROTECTION OVERRIDE	197		
165	MESSAGE REGISTRATION SURCHARGE = 6 UNITS	198	EXTENSION 3 TRUNK TO TRUNK CONNECT ENABLE	198		198	EXTENSION 3 TRUNK TO TRUNK CONNECT ENABLE	198		
166	MESSAGE REGISTRATION SURCHARGE = 5 UNITS	199	MULTI CONTROL ENABLE	199		199	MULTI CONTROL ENABLE	199		
167	MESSAGE REGISTRATION SURCHARGE = 4 UNITS	200	MEASUREMENT ENABLE	200		200	MEASUREMENT ENABLE	200		
168	MESSAGE REGISTRATION SURCHARGE = 3 UNITS	201	MEASUREMENT EXTREME VALUE MODE	201		201	MEASUREMENT EXTREME VALUE MODE	201		
169	MESSAGE REGISTRATION SURCHARGE = 2 UNITS	202	TRAFFIC MEASUREMENT COMPACT REPORT	202		202	TRAFFIC MEASUREMENT COMPACT REPORT	202		
170	MESSAGE REGISTRATION SURCHARGE = 1 UNITS	203	TRAFFIC MEASUREMENT POLLING	203		203	TRAFFIC MEASUREMENT POLLING	203		
171	DID TO NIN CO TRUNKS VIA ATTENDANT INHIBIT	204	TRAFFIC MEASUREMENT AUTOPRINT	204		204	TRAFFIC MEASUREMENT AUTOPRINT	204		
172	GUEST ROOM BUTTON ENABLE	205	IDENTIFIED TRUNK GROUP FNABLE	205		205	IDENTIFIED TRUNK GROUP FNABLE	205		
173	ROOM STATUS BUTTON ENABLE & DISPLAY ENABLE	206	INHIBIT AUTOMATIC SUPERVISION	206		206	INHIBIT AUTOMATIC SUPERVISION	206		
174	DID NOT DISTURB INTERCEPT TO ATTENDANT	207	PRINT CARRIAGE RETURN DELAY	207		207	PRINT CARRIAGE RETURN DELAY	207		
175	DID NOT DISTURB AND MESSAGE WAITING DISPLAYS	208	ZERO MESSAGE REGISTER AFTER ROOM REGISTER AUDIT	208		208	ZERO MESSAGE REGISTER AFTER ROOM REGISTER AUDIT	208		
176	SINGLE DIGIT DIALING ENABLE	209	TRAFFIC MEASUREMENT CONSOLF FUNCTION ENABLE	209		209	TRAFFIC MEASUREMENT CONSOLF FUNCTION ENABLE	209		
177	SINGLE DIGIT DIALING TIME - OUT = 3 SECONDS	210	ATTENDANT PRINTER CONTROL ENABLE	210		210	ATTENDANT PRINTER CONTROL ENABLE	210		
178	SINGLE DIGIT DIALING TIME - OUT = 5 SECONDS	211	SYSTEM ID ENABLE	211		211	SYSTEM ID ENABLE	211		
179	ATTENDANT STATION BUSY - OUT ENABLE	212	NIGHTBELL 3 WITH MINOR ALARM ENABLE	212		212	NIGHTBELL 3 WITH MINOR ALARM ENABLE	212		
180	FLASH TIMING = 0.7 SECONDS	213	PRIORITOUTS EXTRA LINE FEEDS	213		213	PRIORITOUTS EXTRA LINE FEEDS	213		
181	FLASH TIMING = 0.9 SECONDS	214	WAKE UP ALARM ENABLE	214		214	WAKE UP ALARM ENABLE	214		
182	FLASH TIMING = 1.1 SECONDS	215	RESERVED	215		215	RESERVED	215		
183	TRUNK RECALL PARTIAL INHIBIT	216	SPEED CALL ENABLE	216		216	SPEED CALL ENABLE	216		
184	RESERVED	217	SPEED CALL PROGRAMMING ENABLE	217		217	SPEED CALL PROGRAMMING ENABLE	217		
185	RESERVED	218	SPEED CALL CONFIDENTIAL NUMBER DISPLAY ENABLE	218		218	SPEED CALL CONFIDENTIAL NUMBER DISPLAY ENABLE	218		
186	RESERVED	219	RESERVED	219		219	RESERVED	219		
187	RESERVED	220	STATION MESSAGE DETAIL RECORDING OUTGOING CALLS	220		220	STATION MESSAGE DETAIL RECORDING OUTGOING CALLS	220		
188	RESERVED	221	STATION MESSAGE DETAIL RECORDING INCOMING CALLS	221		221	STATION MESSAGE DETAIL RECORDING INCOMING CALLS	221		
189	RESERVED									
190*	AUTOMATIC WAKE - UP ENABLE									

EXAMPLE ONLY

SYSTEM OPTIONS

OPTION	OPTION NUMBER	OPTION NAME	OPTION NUMBER
SMDR EXTENDED RECORD	222	INCOMING AND OUTGOING CALL/FORWARDING ENABLE	251
SMDR RECORD METER PULSES	223	ARS ENABLE	252
SMDR INDICATE LONG CALLS	224	ARS UNRESTRICTED OFFICE CODE ENABLE	253
SMDR DROP INCOMPLETE OUTGOING CALLS	225	MTEL PRINTER CONDENSED SMDR PRINT	254
SMDR-RECORD ONLY INCOMING CO CALLS	226	PRINTER TRANSMIT ADDITIONAL NULLS	255
SMDR-DROP CALLS OF LESS THAN 8 DIGITS	227	RANGE PROGRAMMING ENABLE	256
DISCRIMINATING DIAL TONE	228	HANDS-FREE ENABLE	257
RESERVED	229	EXTERNAL CALL FORWARDING ENABLE	258
ACCOUNT CODE ENABLE	230	CALL FORWARDING DUNIT ANSWER TIME/OUT - 10S	259
ACCOUNT CODE LENGTH: 4 DIGITS	231	CUSTOMER PRINTOUT	260
ACCOUNT CODE LENGTH: 8 DIGITS	232	SERIAL CALL P...SH BUTTON ENABLE	261
ACCOUNT CODE LENGTH: 12 DIGITS	233	DATA OF...ENABLE	262
VARIABLE LENGTH ACCOUNTS CODE	234	MIP...DISABLE	263
CUSTOMER PROGRAMMING ENABLE	235	MIP...DIAL TONE	264
CUSTOMER RANGE/TENANT PROGRAMMING ENABLE	236	...ING TIME - OUT 1 MINUTE	265
CUSTOMER PROGRAMMING SYSTEM OPTIONS ENABLE	237	DIGIT TRANSLATION PLAN 1	266
CUSTOMER PROGRAMMING OF COS OPTIONS ENABLE	238	DIGIT TRANSLATION PLAN 2	267
CUSTOMER PROGRAMMING OF FEATURES ENABLE	239	DIGIT TRANSLATION PLAN 3	268
CUSTOMER PROGRAMMING OF EXTENSIONS ENABLE	240	A.R.S. DIAL 0 TIMEOUT 5 SECONDS.	269
CUSTOMER PROGRAMMING OF TRUNK ENABLE	241	A.R.S. DIAL 0 TIMEOUT 10 SECONDS.	270
CUSTOMER PROGRAMMING OF DUNIT GROUP ENABLE	242		
CUSTOMER PROGRAMMING OF TRUNK GROUP ENABLE	243		
CUSTOMER PROGRAMMING OF TOLL CONTROL ENABLE	244		
CUSTOMER PROGRAMMING OF SPEED CALL ENABLE	245		
CUSTOMER PROGRAMMING OF ARS ENABLE	246		
RESERVED	247		
RESERVED	248		
RESERVED	249		
RESERVED	250		

EXAMPLE ONLY

OPTION

OPTION NUMBER (100-270)

OPTION NUMBER (100-270)

OPTION

ENTER

AFTER ALL OPTIONS ARE ADDED PRESS

NOTES  
TO DELETE SYSTEM OPTIONS

AFTER ALL REQUIRED OPTIONS HAVE BEEN REMOVED

TO REMOVE SYSTEM OPTIONS

OPTION DIAL OPTION DELET

ENTER

OPTION NEXT NEXT

## 4.03 COS Options

Step	Operation
1.	Press the COS DEFINE button.
2.	Dial the number of the COS required (1 through 16).
3.	Press the OPTION button.
4.	Dial the number of the extension option required to be added or deleted to the COS selected in step 2. (See CLASS-OF-SERVICE DEFINITIONS).
5.	Press the ADD button to add the option to the selected COS.
	OR
	Press the DELETE button to remove the option from the selected COS.
6.	Repeat steps 3, 4, and 5 until all required extension options have been added or deleted to the selected COS.
7.	Press the ENTER button to enter all COS options into the memory.
8.	Repeat steps 1 through 7 for the next required COS.

MITEL		TO CHANGE ANY OPTION FOR A COS 1-16 PRESS OPTION DIAL OPTION NUMBER 31-101 PRESS ADD TO ENABLE OR PRESS DELETE TO REMOVE																
OPTION NO	COS NUMBER 1-16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	OPTION NAME
33																		AUTOMATIC CALLBACK
34																		CALL FORWARDING - BUSY
35																		CALL FORWARDING - DOHT ANSWER
36																		CALL FORWARDING - FOLLOW ME
37																		CALL PARK
38																		NEVER A FORWARDEE
39																		ORFECTED CALL PICKUP
40																		EXECUTIVE BUSY OVERRIDE
41																		DATA SECURITY
42																		STATION OVERRIDE SECURITY
43																		INWARD RESTRICTION (IDD)
44																		ORIGIMATE ONLY
45																		RECEIVE ONLY
46																		FLASH DISABLE
47																		NEVER A CONSULTEE
48																		BROKERS CALL
49																		STATION CONFERENCE
50																		MEET ME CONFERENCE
51																		CAMP ON
52																		DO NOT OVERFLOW
53																		PAGING ACCESS
54																		TAFAS ACCESS
55																		HOLD PICKUP
56																		ACCOUNT CODE ACCESS
57																		MANUAL LINE
58																		CONTACT MONITOR
59																		FROM CO TRUNKS VIA ATTENDANT INHIBIT
60																		TO TRUNKS VIA ATTENDANT INHIBIT
61																		NO DIAL TONE
62																		FLASH FOR ATTENDANT
63																		FROM STN SIN RESTRICT APPLIES
64																		MESSAGE REGISTER
65																		TRUNK GROUP 1 ACCESS
66																		TRUNK GROUP 2 ACCESS
67																		TRUNK GROUP 3 ACCESS
68																		TRUNK GROUP 4 ACCESS
69																		TRUNK GROUP 5 ACCESS
70																		TRUNK GROUP 6 ACCESS
71																		TRUNK GROUP 7 ACCESS
72																		TRUNK GROUP 8 ACCESS
73																		TRUNK GROUP 9 ACCESS
74																		TRUNK GROUP 10 ACCESS
75																		TRUNK GROUP 11 ACCESS
76																		TRUNK GROUP 12 ACCESS

EXAMPLE ONLY

CLASS OF SERVICE OPTIONS

REPEAT FOR EACH OPTION IN THE COS

OPTION NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	OPTION NO	OPTION NAME
77																	77	MESSAGE WAITING APPLIES
78																	78	ROOM DO NOT DISTURB ENABLE
79																	79	CALL HOLD AND RETRIEVE ACCESS
80																	80	ROOM STATUS APPLIES
81																	81	CALL FORWARDING SYSTEM INHIBIT
82																	82	ALARM CALL ENABLE
83																	83	FORCED ACCOUNT CODE ENTRY
84																	84	NO. TAMPOR RECORD APPLIES
85																	85	SPEED CALL TABLE 1&2 ACCESS
86																	86	SPEED CALL TABLE 1&4 ACCESS
87																	87	SPEED CALL TABLE 5&6 ACCESS
88																	88	SPEED CALL TABLE 7&8 ACCESS
89																	89	SPEED CALL TABLE 9&10 ACCESS
90																	90	SPEED CALL TABLE 11&12 ACCESS
91																	91	SPEED CALL TABLE 13&14 ACCESS
92																	92	SPEED CALL TABLE 15&16 ACCESS
93																	93	SPEED CALL TABLE 17&18 ACCESS
94																	94	CANNOT DIAL A TRUNK AFTER FLASHING
95																	95	INCOMING TRUNK ROTARY DIAL ONLY
96																	96	ARS RESTRICTED CALL FORWARDING ENABLE
97																	97	EXTERNAL CALL FORWARDING ENABLE
98																	98	TRANSFER WITH PRIVACY
99																	99	HANDS - FREE STATION
100																	100	ARS ALLOWED
101																	101	EARTH GROUND BUTTON

EXAMPLE ONLY

TO CHANGE ANY OPTION FOR A COS 1-16 PRESS

TO REVIEW THE OPTIONS WITHIN A COS PRESS

TO ENABLE OR PRESS

TO REMOVE

TO ENTER ALL INFORMATION IN THIS COS OFFER ALL OPTIONS IN THAT COS HAVE BEEN OFFERED PRESS

TO REVIEW THE OPTIONS WITHIN A COS PRESS

NOTES

YOU CANNOT CHANGE AN EXTENSION OR TRUNK IF THE EXTENSION OR TRUNK IS BUSY HAS MESSAGE WAITING OR DO NOT DISTURB SET. IT ALSO CANNOT BE CHANGED UNLESS MESSAGE REGISTER IS CLEARED.

4.04 Features

Step	Operation
1.	Press the FEATURE button.
2.	Dial the number of the required feature. (See FEATURE ASSIGNMENTS TABLE 2-4)
3.	Press the ACCESS CODE button.
4.	Dial the access code to be assigned to the feature. OR Press the DELETE button to remove an access code.
5.	Press the ENTER button to enter information into the memory.
6.	Repeat steps 1 through 5 until all required access codes have been assigned or deleted.

FEATURES

FEATURE	DIAL 1-46	ACCESS CODES	ASSIGN AND DIAL TRUNK	ENTER
CALL RETRIEVE (RMTE)	27			
ROOM STATUS UPDATE (MAID IN ROOM)	28			
PROGRAMMING SECURITY CODE	29			
ALARM CALL (AUTOMATIC WAKE - UP)	30			
ALERT CODE	31			
SPEED CALL	32			
ASSIGN ACCESS CODES TO FEATURES 33-42 FOR TRUNK GROUP 1 IF NECESSARY				
TRUNK GROUP 1 ACCESS CODE	33			
TRUNK GROUP 1 ACCESS CODE	34			
TRUNK GROUP 1 ACCESS CODE	35			
TRUNK GROUP 1 ACCESS CODE	36			
TRUNK GROUP 1 ACCESS CODE	37			
TRUNK GROUP 1 ACCESS CODE	38			
TRUNK GROUP 1 ACCESS CODE	39			
TRUNK GROUP 1 ACCESS CODE	40			
TRUNK GROUP 1 ACCESS CODE	41			
TRUNK GROUP 1 ACCESS CODE	42			
CUSTOMER PROGRAMMING SECURITY CODE	43			
A.R.S. ACCESS CODE	44			
HANDS FREE ACTIVATION	45			
CALL FORWARDING BUSY - TRUNK ANSWER	46			

FEATURES

FEATURE	DIAL 1-46	ACCESS CODES	ASSIGN AND ACCESS CODE	ENTER
DESCRIPTION	FEATURE NUMBER			
ATTENDANT ACCESS	1			
CALLBACK - DONT ANSWER	2			
CALL FORWARDING BUSY	3			
CALL FORWARDING DONT ANSWER	4			
CALL FORWARDING FOLLOW ME	5			
CALL PARK	6			
DIAL CALL PICKUP	7			
DIRECTED CALL PICKUP	8			
MEET ME CONFERENCE	9			
PAGER 1	10			
PAGER 2	11			
HOLD PICKUP ACCESS	12			
PAGER 1 AND 2	13			
LAFAS ALL	14			
LAFAS 1	15			
LAFAS 2	16			
LAFAS 3	17			
ATTENDANT FUNCTION	18			
MAINTENANCE TURN IRON	19			
DID ATTENDANT ACCESS CODE	20			
DIRECT FORWARD SYSTEM ACCESS	21			
EXCLUSIVE BUSY OVERRIDE (SINGLE DIGIT)***	22			
CALLBACK BUSY (SINGLE DIGIT)***	23			
ROOM DO NOT DISTURB	24			
CALL HOLD	25			
CALL RETRIEVE (LOCAL)	26			

EXAMPLE ONLY

TO REVIEW ACCESS CODES

\*\*\*FIRST DIGIT CONFLICT ALLOWED WITH OTHER ACCESS CODES

## 4.05 Extensions

Step	Operation
	If TENANT service is used, commence at Step 1. If TENANT service is not used, start at Step 4 (Note 1).
1.	Press the TENANT button.
2.	Dial required tenant number (1, 2, 3 or 4).
3.	Press the ENTER button.
4.	Press the EXTN button.
5.	Press the EQPT NUMBER button.
6.	Dial the required equipment number (see EQUIPMENT NUMBERING, Fig. 2-1).
7.	Press the EXTN NUMBER button.
8.	Dial the required extension number
	OR
	Press the DELETE button to remove existing extension information.
9.	Press the COS Number button.
10.	Dial the required COS number (1 through 16).
11.	Press the TOLL DENY button. (See Note 2)
12.	Press the ADD button to implement toll denial for the extension selected
	OR
	Press the DELETE button to remove toll denial for the extension selected.
13.	Press the BUSY LAMP NUMBER button.
14.	Dial the number of the busy lamp which is associated with the selected extension. (see BUSY LAMP POSITION NUMBERING, Fig. 2-2)
	OR
	Press the DELETE button if no busy lamp is required.
15.	Press the PICKUP GROUP button.
16.	Dial the number of the required pickup group (1 through 30)
	OR
	Press the DELETE button if no pickup group assignment is required.
17.	Press the ENTER button to enter all extension information into the memory.
18.	Repeat steps 1 through 18 or 4 through 18 for all required extensions.

- Notes:
1. All extensions in one tenant group should be entered in succession following the listed steps. The next group of extensions are entered in a similar manner using the TENANT and ENTER buttons again.
  2. For Multi Digit Toll Control, see Section MITL9105/9110-097-212-NA Programming Procedures.



EXTENSION

IF TENANT SERVICE IS IN USE  
ALL ENTRIES MADE ARE ASSIGNED TO THE TENANT NUMBER DIALED (TENANT) DIAL 1-4 ENTER

TO ENTER EXTENSION PROGRAMMING PRESS EXTN

TENANT	EQUIPMENT NUMBER DIAL 1-112 OR 161-256 (SEE NOTE 1)	EXTIN NUMBER	DIAL CODE OR NOTES SEE NOTES 2,3, OR 4	COS NUMBER DIAL 1-16	TOLL DENY TOLL DENY TOLL ALLOW (SEE NOTES 5)	BUSY LAMP NUMBER ADD OR DELETE (SEE NOTES 5)	DIAL BUSY LAMP NUMBER 1-200	PICKUP GROUP DELETE	DIAL 1-30 OR	ENTER
	001	200		1	1	1	1	1		
	002	201		1	1	1	2	1		
	003	202		2	3	3	3	DELETE		
	004	203		2	3	3	4	DELETE		
	005	204		2	3	3	5	DELETE		
	006	301		2	3	3	31	DELETE		
	007	302		2	ADD	ADD	32	DELETE		
	008	303		2	ADD	ADD	33	DELETE		
	009	304		2	DELETE	DELETE	34	DELETE		
	010	305		2	DELETE	DELETE	35	DELETE		
	011	2#		2	DELETE	DELETE	40	DELETE		

EXAMPLE ONLY

NOTES

- EQUIPMENT NUMBERS 161-256 APPLIES TO SX-200 ONLY
- TO ASSIGN NON-CONFLICTING SINGLE DIGIT DIRECTORY NUMBER, ENTER N# 5 COR 1-3 APPLIES ONLY IF MULTI-DIGIT TOLL CONTROL IS USED WHERE N IS THE SINGLE DIGIT
- TO REMOVE EXTENSION PROGRAMMING  
EXTIN EQUIPMENT NUMBER DELETE  
EXTIN EQUIPMENT NUMBER DELETE
- TO SEE THE NEXT EQUIPMENT NUMBER ASSIGNED AS AN EXTENSION  
EQUIPMENT NUMBER NEXT

MITTEL

**EXTENSION RANGE PROGRAMMING**

TO ENTER EXTENSION RANGE PROGRAMMING PRESS RANGE

TENANT NUMBER	EQPT NUMBER <small>DIAL FIRST EQPT NUMBER OR LAST EQPT NUMBER NOTE 1</small>	DIAL FIRST CODE OF RANGE <small>OR SEE NOTES 2, 3 OR 4</small>	COS NUMBER <small>DIAL COS 1 16 FOR RANGE</small>	TOI DENY <small>OR DIAL 1001 FOR 1, 2 OR 3 OR TOI ALLOW NOTE 5</small>	BUSY LAMP NUMBER <small>DIAL FIRST BUSY LAMP 1-200 OR</small>	PICKUP GROUP <small>DIAL 1 30 FOR RANGE OR</small>	ENTER <small>DELETE</small>

EXAMPLE ONLY

**NOTES**

1. 001, 101, SX, 200 & SX 100-101, 256 APPLIES TO SX 200 ONLY
2. TO ASSIGN NON-CONFLICTING SINGLE UNIT DIRECTORY NUMBER ENTER IN
3. TO REMOVE EXTENSION PROGRAMMING
4. TO SEE THE NEXT EQPT NUMBER AS AN EXTENSION
5. COS 1-3 APPLIES ONLY IF TOI CONTROL IS USED

EQPT NUMBER

NEXT

EQPT NUMBER

DELETE

DIAL EQUIPMENT NUMBER

DELETE

EQPT NUMBER

DELETE

EQPT NUMBER

DELETE

EXTENSION MUST BE REMOVED FROM THE SYSTEM BEFORE REMOVING THE EXTENSION PROGRAMMING



## 4.06 Hunt Groups

Step	Operation
	If TENANT service is used, commence at Step 1. If TENANT service is not used, start at Step 4. (Note 1)
1.	Press the TENANT button.
2.	Dial the required tenant number (1, 2, 3 or 4).
3.	Press the ENTER button.
4.	Press the HUNT GROUP button.
5.	Dial the number of the required hunt group (1 through 12).
6.	Press the ACCESS CODE button.
7.	Dial the required ACCESS CODE (master number).
	OR
	Press the DELETE button to remove an existing hunt group.
8.	Press the EQPT NUMBER button.
9.	Dial the equipment number of the first extension in the hunt group.
10.	Press the EQPT NUMBER button.
11.	Dial the equipment number of the next extension in the hunt group.
12.	Repeat steps 10 and 11 until all required extensions have been dialed.
13.	Press the ENTER button to enter all hunt group information into the memory.
14.	Repeat steps 1 through 13 for all required hunt groups.

- Notes:**
1. All extensions in one tenant group should be entered in succession following the listed steps. The next group of extensions are entered in a similar manner using the TENANT and ENTER buttons again.
  2. If the hunt group is to be a circular hunt group, then the first equipment number entered must be reentered as the last number.



4.07 Trunks

(a) Trunk Card Settings

Before programming the trunk circuits the Installation Forms which detail the trunk card switch settings must have been completed, and the switches on these cards set to their proper positions. Full details of the switch setting procedures are given in Appendix 5 to Section MITL9105/9110-097-200-NA. Typical configurations are shown in the following examples.

CO TRUNK CARD SWITCH SETTINGS: The example shown has the following meanings:

Trunk 1 - Trunk is active with a ground start configuration

Trunk 2 - Trunk is the same configuration as Trunk 1

Trunk 3 - Trunk is similar to Trunk 1 but is a spare trunk

Trunk 4 - Trunk is a dictation trunk with loop start and the 3rd wire condition active

DID/TIE TRUNK CARD SWITCH SETTINGS: The example shown has the following meanings:

Trunk 1 - Trunk is a loop tie trunk with no wink or "stop-dial" requirements

Trunk 2 - Trunk is a DID/Tie trunk with no wink or "stop-dial" requirements and uses loop pulsing

TRUNK CARD SWITCH SETTINGS - CO TRUNK CARDS

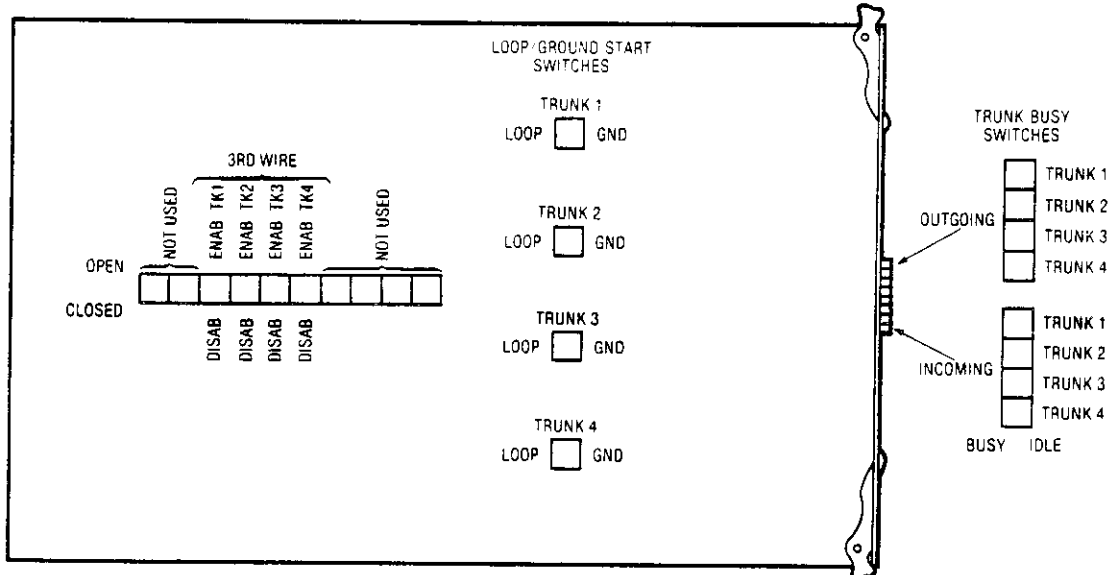
CARD SLOT NO./	CO DIRECTORY NO.	SELF NO.		CARD TRUNK NUMBER	TRUNK EQPT NUMBER	INCOMING CONDITION		OUTGOING CONDITION		LOOP/GND START		3RD WIRE CONDITION		SENSE REVERSALS		RELEASE TIME			M/B RATIO		XT	HI-Z		
		1	2			BUSY	IDLE	BUSY	IDLE	LOOP	GND	ENAB	DIS	IGN	FF	"A" ONG	"A" SHRT	"A" LONG	3/6	40/60		GND	-48V	HI-Z
	592-212	✓		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓
	592-213	✓		2		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓
	SPARE	✓		3		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓
	DICTATION	✓		4		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓

EXAMPLE ONLY

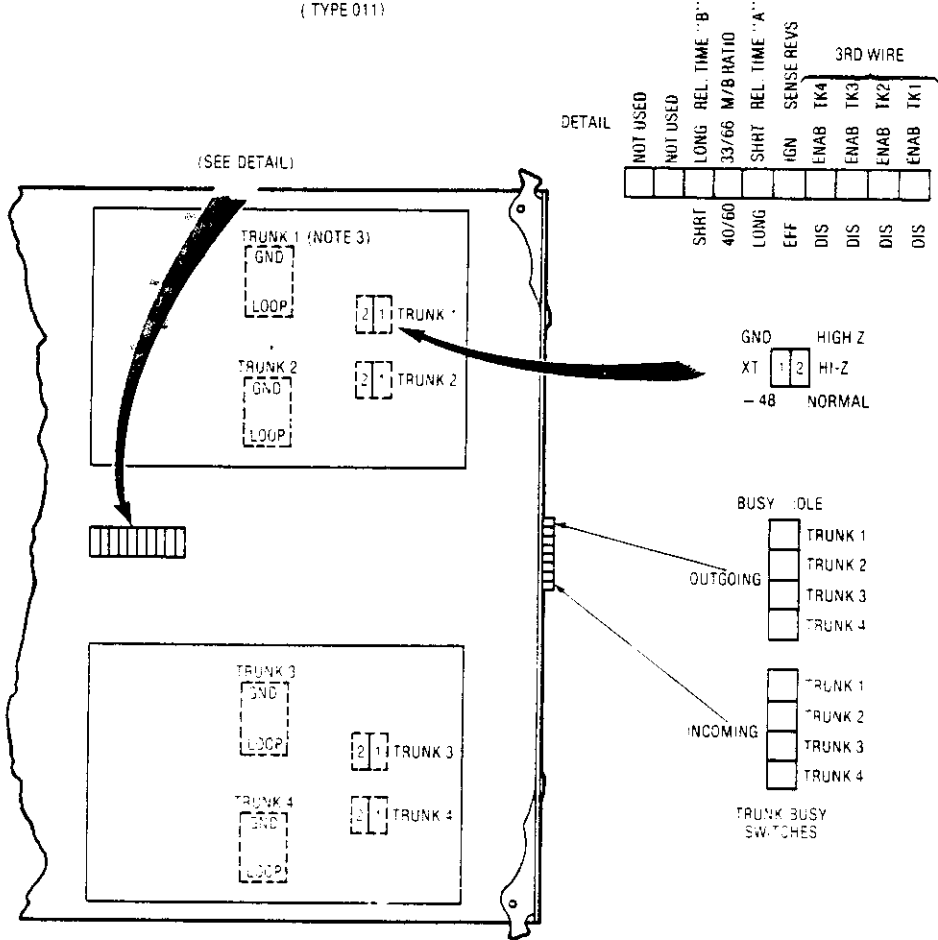
NOTES

1. EARLIER TRUNK CARD VERSIONS DO NOT HAVE ALL SWITCHES LISTED ABOVE.
2. CHECK APPROPRIATE COLUMN E.G. "BUSY" OR "IDLE" FOR DESIRED SETTING.
3. SEE SECTION MITL9105/9110-097-200-NA APPENDIX 5 FOR PROCEDURES USED IN SETTING TRUNK CARD SWITCHES.

SECTION MITL9105/9110-097-210-NA



CO TRUNK CARD - SINGLE ASSEMBLY (TYPE 011)



CO TRUNK CARD - MODULAR ASSEMBLIES

CO TRUNK CARD SWITCH IDENTIFICATION

TRUNK CARD SWITCH SETTING - DID/TIE TRUNK CARD

CIRCUIT REFERENCE NUMBERS			
TRUNK 1			
TRUNK 2			
SHELF NUMBER			
CARD SLOT NUMBER 13			
TRUNK CARD 2			
SWITCH SETTINGS		TRUNK 1	TRUNK 2
EQPT NUMBER			
INCOMING CONDITIONS	BUSY	✓	✓
	IDLE		
OUTGOING CONDITIONS	BUSY		
	IDLE	✓	✓
SWITCH "A" SETTING	CLOSED	✓	✓
	OPEN		
SWITCH "B" SETTING	CLOSED		✓
	OPEN	✓	
INCOMING WINK	WINK		
	NO WINK	✓	✓
OUTGOING WINK	WINK		
	NO WINK	✓	✓
TRUNK IMPEDANCE SWITCHES (3)	900	✓	✓
	600		
PULSING CONDITION	BATTERY/GROUND LOOP	✓	✓
DIALING CONDITIONS	STOP DIAL		
	NOT STOP DIAL	✓	✓

CIRCUIT REFERENCE NUMBERS			
TRUNK 1			
TRUNK 2			
SHELF NUMBER			
CARD SLOT NUMBER			
TRUNK CARD			
SWITCH SETTINGS		TRUNK 1	TRUNK 2
EQPT NUMBER			
INCOMING CONDITIONS	BUSY		
	IDLE		
OUTGOING CONDITIONS	BUSY		
SWITCH "A" SETTING			
	OPEN		
SWITCH "B" SETTING	CLOSED		
	OPEN		
INCOMING WINK	WINK		
	NO WINK		
OUTGOING WINK	WINK		
	NO WINK		
TRUNK IMPEDANCE SWITCHES (3)	900		
	600		
PULSING CONDITION	BATTERY/GROUND LOOP		
DIALING CONDITIONS	STOP DIAL		
	NOT STOP DIAL		

EXAMPLE ONLY

NOTES: 1. TRUNK CARD SWITCHES MUST BE SET TO ONE POSSIBLE SETTING FOR EACH SWITCH AS DETAILED IN SECTION MITL 9105/9110-097-200-NA APPENDIX 5 MAP 200-503

SECTION MITL9105/9110-097-210-NA

(b) Non Dial-In Trunks

Step	Operation
	If TENANT service is used, commence at step 1. If TENANT service is not used, start at step 4 (Note 1).
1.	Press the TENANT button.
2.	Dial the required tenant number (1, 2, 3 or 4).
3.	Press the ENTER button.
4.	Press the TRUNK button.
5.	Press the EQPT NUMBER button.
6.	Dial the equipment number to be associated with the required trunk (see EQUIPMENT NUMBERING, Fig. 2-1)
7.	Press the TYPE button.
8.	Dial the required trunk type number (1-Standard Bothway CO Trunk VNL, 5 - Non Dial-In Tie Trunk VNL, 11 Standard Bothway CO Trunk Non VNL and 51 - Non Dial-In Tie Trunk Non VNL).
	OR
	Press the DELETE button to delete all trunk information.
9.	Press the LDN NUMBER button.
10.	Dial the number of LDN button with which the trunk is to be associated. (1 through 4)
11.	Press the DAY NUMBER button.
12.	Dial equipment number, or # (night bell number), or * (hunt group number).
13.	Press the NIGHT 1 button.
14.	Dial equipment number or # (night bell number), or * (hunt group number).
15.	Press the NIGHT 2 button.
16.	Dial equipment number, or # (night bell number), or * (hunt group number).
17.	Press the BUSY LAMP NUMBER button.
18.	Dial the number of the busy lamp to be associated with the trunk (see BUSY LAMP POSITION NUMBERING, Fig. 2-2)
	OR
	Press the DELETE button if no busy lamp is required.
19.	Press the ENTER button to enter all trunk information into the memory.
20.	Repeat steps 1 through 20 for all trunks required.

- Notes:**
1. All trunks in one tenant group should be entered in succession following the listed steps. The next group of trunks are entered in a similar manner using the TENANT and ENTER buttons again.
  2. For Multi Digit Toll Control, see Section MITL9105/9110-097-212-NA Programming Procedures.





SECTION MITL9105/9110-097-210-NA

(c) Dial-In Trunks

Step	Operation
	If TENANT service is used, commence at step 1. If TENANT service is not used, start at step 4 (Note 1).
1.	Press the TENANT button.
2.	Dial the required tenant number (1, 2, 3 or 4).
3.	Press the ENTER button.
4.	Press the TRUNK button.
5.	Press the EQPT NUMBER button.
6.	Dial the equipment number to be associated with the required trunk (see EQUIPMENT NUMBERING, Fig. 2-2).
7.	Press the TYPE button.
8.	Dial the required trunk type number (2 - Direct Inward System Access or 4 - Dial-In Tie Trunk).
	OR
	Press the DELETE button to delete all trunk information.
9.	Press the COS number button.
10.	Dial the required COS number (1 through 16).
11.	Press the TOLL DENY button.
12.	Press the ADD button to implement toll denial for the trunk selected.
	OR
	Press the DELETE button to remove toll denial for the trunk selected.
13.	Press the BUSY LAMP NUMBER button.
14.	Dial the number of the busy lamp which is to be associated with the selected lamp. (see BUSY LAMP POSITION NUMBERING, Fig. 2-2)
	OR
	Press the DELETE key if no busy lamp is required.
15.	Press the ENTER button to enter all Dial-In Trunk information into the memory.
16.	Repeat steps 1 through 16 for all Dial-In trunks required.

- Notes:**
1. All extensions in one tenant group should be entered in succession following the listed steps. The next group of extensions are entered using the TENANT and ENTER buttons again.
  2. For Multi Digit Toll Control, see Section MITL9105/9110-097-212-NA Programming Procedures.

DIAL-IN TRUNKS

IF TRUNK SERVICE IS IN USE  
ALL ENTRIES MADE ARE ASSIGNED TO THE TRUNK NUMBER DIALED

TERMINI NUMBER [TERMINI] DIAL 1-4 [ENTER]

TO ENTER TRUNK PROGRAMMING PRESS [THINK]

TERMINI NUMBER	EQUIPMENT NUMBER DIAL TO 112 OR 116 182, 256 (SEE NOTES 1, 2 AND 7)	SEE NOTE 3 TYPE	DIAL CODE 2, 4, 21 OR 41 OR DELETE	COS NUMBER	DIAL 1-16	ROLL DENY OR DIAL CODE 1, 2, OR 3 OR DELETE	AND	ROLL DENY OR DIAL CODE 1, 2, OR 3 OR DELETE	NOTE 6 ALLOW	BUSY LAMP NUMBER	DIAL 1-200 CONSOLES DELETE	ENTER
	074	2	2		2				DELETE	74		
	078	2	2		2				DELETE	75		
	082	2	2		2				DELETE	76		
	086	21	21		2				DELETE	77		

EXAMPLE ONLY

- NOTES
- EQUIPMENT NUMBERS 182, 256 APPLIES TO SX-200 ONLY
  - EVEN EQUIPMENT NUMBERS ONLY MAY BE ASSIGNED TO TRUNKS
  - TYPE 2 - DIRECT INWARD SYSTEM ACCESS VRI
  - TYPE E 4 - DIAL IN THE TRUNK (DIP-10) VRI
  - TYPE 21 - DIRECT INWARD SYSTEM ACCESS FROM VRI
  - TYPE 41 - DIAL IN THE TRUNK (DIP-10) FROM VRI
  - TYPE 3 - APPLIES ONLY IF MULTI-SIGHT (DIP-1) CONTROL IS USED
  - TYPE 21 SHOULD CONTAIN A TIME CARD SO FIRST TRUNK EQUIPMENT NUMBER SHOULD BE 010
- 4 TO REMOVE A TRUNK ASSIGNMENT  
NOTE TRUNK MUST FIRST BE REMOVED FROM TRUNK GROUP
- 5 TO SEE THE NEXT EQUIPMENT NUMBER  
ASSIGNED AS A TRUNK
- [EQUIPMENT NUMBER] [DIAL EQUIPMENT NUMBERS] [TYPE] [DELETE] [EQUIPMENT NUMBER] [NEXT]



(d) DID/CCSA Dial-In Trunks

Step	Operation
	If TENANT service is used, commence at step 1. If TENANT service is not used, start at step 4 (Note 1).
1.	Press the TENANT button.
2.	Dial the required tenant number (1, 2, 3 or 4).
3.	Press the ENTER button.
4.	Press the TRUNK button.
5.	Press the EQPT NUMBER button.
6.	Dial the equipment number to be associated with the required trunk (see EQUIPMENT NUMBERING, Fig. 2-1).
7.	Press the TYPE button.
8.	Dial the required trunk type code (3 - DID VNL, 6 - CCSA VNL, 31 - DID Non VNL and 61 - CCSA Non VNL) OR Press the DELETE button to delete all trunk information.
9.	Press the I/C button.
10.	Dial the required NMX code (N - number of digits to be received after the trunk is seized, M - number of digits to be absorbed after the trunk is seized, X - the actual leading digit to be inserted, if required).
11.	Press the BUSY LAMP NUMBER button.
12.	Dial the number of the busy lamp which is to be associated with the selected trunk (see BUSY LAMP POSITION NUMBERING, Fig. 2-2) OR Press the DELETE button, if no busy lamp is required.
13.	Press the ENTER button to enter all DID/CCSA Dial-In Tie Trunk information into the memory.
14.	Repeat steps 1 through 13 for all DID/CCSA trunks required.

- Notes:**
1. All trunks in one tenant group should be entered in succession following the listed steps. The next group of trunks are entered in a similar manner using the TENANT and ENTER buttons again.
  2. For Multi Digit Toll Control, see Section MITL9105/9110-097-212-NA Programming Procedures.

DID/CCSA TRUNKS

IF TENANT SERVICE IS IN USE  
ALL ENTRIES MADE ARE ASSIGNED TO THE TENANT NUMBER DIALED

TENANT  
DIAL  
1-4  
ENTER

TO ENTER TRUNK PROGRAMMING PRESS

TRUNK

TENANT NUMBER	EOP1 NUMBER DIAL 10-110 OR 162-254 (SEE NOTES 1,2 AND 7)	DIAL 3,6 31 OR 61 TYPE DELETE	DIAL MAX CODE (NOTE 4) I/C	BUSY LAMP NUMBER DELETE	DIAL 1-200 DELETE	ENTER
			N M X 3 2		78	
	090	3			79	
	094	3				

EXAMPLE ONLY

- 5. TO REMOVE A TRUNK ASSIGNMENT (TRUNK MUST BE REMOVED FROM TRUNK GROUP)
- 6. TO SEE THE NEXT TRUNK NUMBER ASSIGNED AS A TRUNK
- 7. SLOT 3 SHOULD CONTAIN A LINE CARD 30-1451 TRUNK EQUIPMENT NUMBER SHOULD BE 010

- 1. EOP1 NUMBER IS 162-254 APPLY TO SA 200 ONLY
- 2. ALL TRUNK LAMP NUMBERS MUST BE ASSIGNED TO DID/CCSA TRUNKS
- 3. TYPE 1 - 000 VBI  
TYPE 21 - 000 FROM ONE  
TYPE 04 - 000 FROM ONE  
TYPE 04 - CCSA FROM ONE
- 4. N - NUMBER OF DIALS TO BE RECEIVED AT THE TRUNK IS SHOWN IN 91
- 5. M - NUMBER OF DIALS TO BE RECEIVED AT EACH TRUNK IS SHOWN IN 91
- 6. X - NUMBER OF DIALS TO BE RECEIVED AT EACH TRUNK IS SHOWN IN 91
- 7. MAXIMUM NUMBER OF DIALS IN 8 IS 11 TENANT SERVICE AFTER ABSORPTION 000
- 8. AND ADDING A DIAL 141

## 4.08 Trunk Groups

Step	Operation
	If TENANT service is used, commence at step 1. If TENANT service is not used, start at step 4 (Note 1).
1.	Press the TENANT button.
2.	Dial the required tenant number (1, 2, 3 or 4).
3.	Press the ENTER button.
4.	Press the TRUNK GROUP button.
5.	Dial the required trunk group number (1 through 12).
6.	Press the ACCESS CODE button.
7.	Dial the required trunk group access code
	OR
	Press the DELETE button to remove all trunk group information.
8.	Press the TYPE button.
9.	Dial the four-digit trunk group type (see TRUNK GROUP TYPE CODES, Table 2-4).
10.	Press the TOLL DENY button.
11.	Press the ADD button to provide toll denial on the trunk group.
	OR
	Press the DELETE button if toll denial is not required on the trunk group.
12.	Press the OVFL0 GROUP button.
13.	Dial the number of the trunk group (1 through 12) to which calls will overflow if the trunk group is busy. You must not overflow into the same group. (see Note 1)
	OR
	Press the DELETE button if no overflow is required.
14.	Press the EQPT NUMBER button.
15.	Dial the equipment number of the first trunk in the trunk group.
16.	Press the EQPT NUMBER button.
17.	Dial the equipment number of the next trunk in the trunk group.
18.	Repeat steps 16 and 17 until all required equipment numbers have been dialed.
19.	Press the ENTER button to enter all trunk group information into the memory.
20.	Repeat steps 1 through 19 for all required trunk groups.

**Note 1:** If a call to a trunk group is routed to the overflow group, the restrictions of the overflow group are in effect for that call.

TRUNK GROUPS

IF TENANT SERVICE IS IN USE  
ALL ENTRIES MADE ARE ASSIGNED TO THE TENANT NUMBER DIALED

IF TENANT SERVICE IS IN USE  
IF TENANT 1-4  
ENTER

TO ENTER TRUNK GROUP PROGRAMMING PRESS  
TRUNK GROUP

TRUNK INFORMATION MUST BE ENTERED BEFORE (TRUNK GROUP DATA)

SEE NOTE 4 AND 7

PRESS EQUIP. NUMBER BEFORE DIALING EACH EQUIPMENT NUMBER ENTRY AFTER LAST ENTRY PRESS ENTER

TENANT NUMBER	TRUNK GROUP	DIAL 1-12	ACCESS CODE	DIAL CODE OR DELETE	TYPE	SEE NOTE 6	TOLL DENY	ADD OR DELETE	DIAL 1-12 OR DELETE	EQUIP. NUMBER	ENTER

NOTES

1. TO SEE THE TRUNKS IN A TRUNK GROUP
2. TO SEE ALL TRUNK GROUPS
3. TO DELETE TRUNK GROUP
3. TO MAKE A CHANGE TO A TRUNK GROUP, THE LIST OF MEMBERS MUST BE RE-ENTERED. INDIVIDUAL MEMBERS CANNOT BE DELETED OR CHANGED. THE EXISTING TRUNK GROUP LIST IS AUTOMATICALLY DELETED WHEN YOU START TO ENTER A NEW ONE.
5. ORIGINAL AND OVERFLOW TRUNK GROUPS MUST BE THE SAME TYPE AND HAVE THE SAME TOLL RESTRICTION CHARACTERISTICS
6. TRUNK GROUP TYPE IS 4 DIGITS  
1-1ST DIGIT NO SUPERVISION  
2-ANSWER SUPERVISION  
3-TOLL REVERSAL  
4-OUTGOING AUDIO INHIBITED UNTIL ANSWER SUPERVISION TIME-OUT OR DIALED
7. THE TRUNKS WITHIN A TRUNK GROUP MAY BE PROGRAMMED FOR EITHER TERMINAL OR CIRCULAR HUNTING. IF TERMINAL HUNTING IS REQUIRED, ENTER TRUNK EQUIPMENT NUMBERS IN REQUIRED SEQUENCE.  
IF CIRCULAR HUNTING IS REQUIRED, MAKE LAST TRUNK EQUIPMENT NUMBER THE SAME AS THE FIRST TRUNK EQUIPMENT NUMBER.  
8. USE OF TOLL DENY KEY DOES NOT APPLY IF TOLL CONTROL ISSUED

2ND DIGIT  
1-NO MESSAGE REGISTER  
2-MESSAGE REGISTER  
3-SMOR WITHOUT MESSAGE REGISTER  
4-SMOR WITH MESSAGE REGISTER

4TH DIGIT  
1-CENTRAL OFFICE  
2-NON-CO  
3-IDENTIFIED TRUNK GROUP (NON-CO)

3RD DIGIT  
1-ROTARY DIAL OFFICE, NO WAIT FOR DIAL TONE  
2-ROTARY DIAL OFFICE, WAIT FOR DIAL TONE  
3-TOUCH TONE DIAL-OFFICE, NO WAIT FOR DIAL TONE  
4-TOUCH TONE DIAL OFFICE, WAIT FOR DIAL TONE

7 THE TRUNKS WITHIN A TRUNK GROUP MAY BE PROGRAMMED FOR EITHER TERMINAL OR CIRCULAR HUNTING. IF TERMINAL HUNTING IS REQUIRED, ENTER TRUNK EQUIPMENT NUMBERS IN REQUIRED SEQUENCE.  
IF CIRCULAR HUNTING IS REQUIRED, MAKE LAST TRUNK EQUIPMENT NUMBER THE SAME AS THE FIRST TRUNK EQUIPMENT NUMBER.  
8 USE OF TOLL DENY KEY DOES NOT APPLY IF TOLL CONTROL ISSUED

SEE SECTION MITL9105 9110-097-212-NA OR TOLL CONTROL FORMS (MS SECTION)

EXAMPLE ONLY

MITTEL





## APPENDIX 1

### MITEL ACTION PROCEDURES

#### GENERAL

**A1.01** Task oriented functions in this section are implemented using MITEL ACTION PROCEDURES (MAP's).

**A1.02** A MAP is a step-by-step procedure using a flow chart principle, written and illustrated where necessary to a level of detail that allows both experienced and inexperienced personnel to carry out the tasks detailed. A MAP contains two levels of information as follows:

- (a) For experienced personnel, a series of steps (level one) each numbered (n) and annotated with minimal information.
- (b) For inexperienced personnel, each step referred to in (a) above is amplified by a connected series of numbered substeps (nA) (level two).

**A1.03** A typical example of a MAP is shown in Fig. A1, with the two levels detailed.

#### MAP SYMBOLS

**A1.04** There are four basic symbol shapes which may be used in a MAP, and are defined as follows.

**A1.05 AND Block:** Used to indicate a level one step that must be performed. Consists of a square with the word AND centred in the block.

**A1.06 OR Block:** Used to indicate a choice of level one steps, one of which must be performed. Consists of a rectangle, with the text centred in the block, and the word OR appearing between the alternative operations.

**A1.07** The rectangle is also used to border instructions which imply that the operator must perform a task outside the scope of the MAP. The text is centred in the rectangle.

**A1.08 DECISION Block:** Used to indicate a decision within the level one steps which must be made. The symbol is based on a hexagon with the top and bottom sides extended. Decision text is centred in the symbol.

**A1.09 START/FINISH/JUMP TO Block:** Used to indicate the start and finish of a MAP. Also used to indicate "jump to" points within the MAP, for example "go to (n)" or "from (n)" or "return to (n)". The symbol is a rectangle with semi circular ends. Text is centred in the symbol.

#### THE OPERATOR'S USE OF MAP'S

##### Experienced Operator

**A1.10** For the experienced operator to complete a task using a MAP, reference to the sequential short form level one step is usually all that is necessary. Using Fig. A1 as an example, the experienced operator would proceed as follows.

**A1.11** At (1) the operator makes a decision based on the information within the block. If the answer is YES, the operator must proceed to a different MAP. If the answer is NO, the operator is faced with another decision at block (2).

**A1.12** At (2) If the decision is NO, there is no requirement to proceed further and the test is abandoned. This naturally results in a FINISH block. If the decision is YES, the operator proceeds to (3) and (4) in succession, i.e. dials the DID station number and completes the call to the check extension.

**A1.13** The description of the instructions, carried out in A1.05 and A1.06 have assumed the level of competence of the operator, is such that short form level one steps contain sufficient information, and therefore, the operator reads only the centre column of the MAP, top to bottom of the page.

INSTALL EQUIPMENT CABINET
MAP200-002
Issue 1, December 1981
Sheet 1 of 5

<b>TOOLS REQUIRED</b>
Screwdriver
Backboard (optional) Minimum size 234 in. (595 mm) X 10.5 in. (420 mm)
4 - Mounting screws (Shank 0.25 in., length 1.5 in. min)

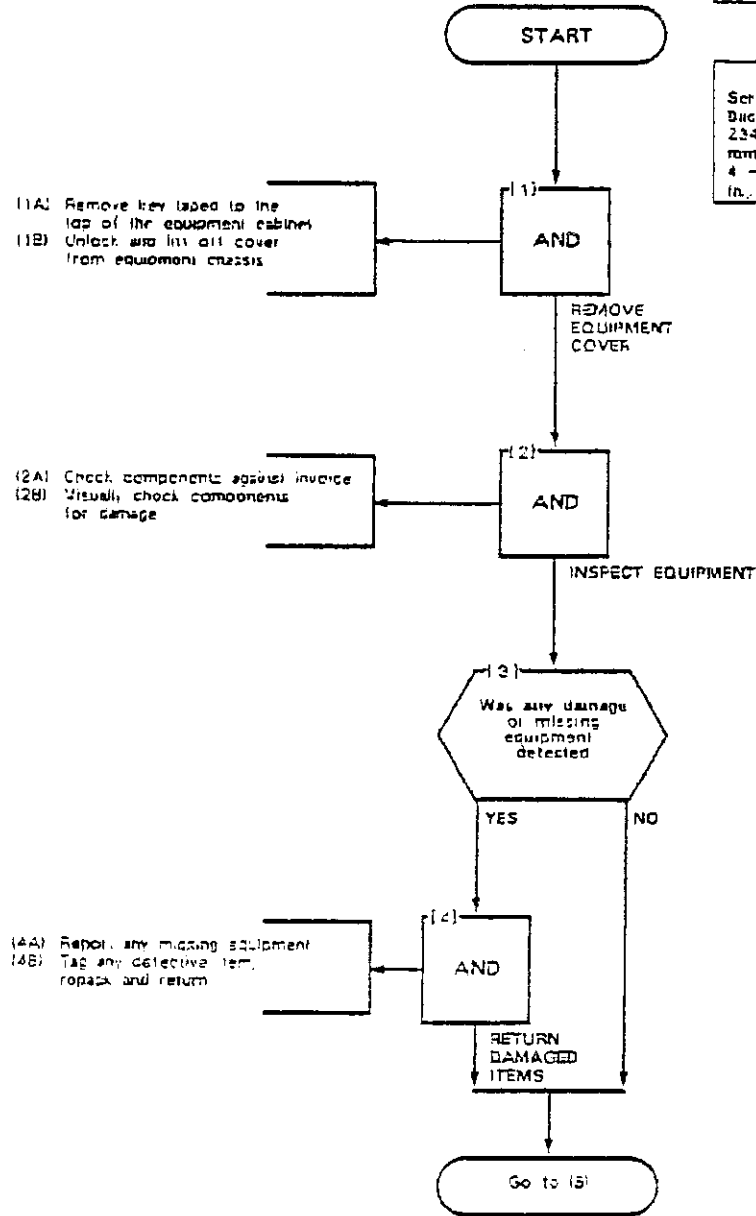


Fig. A1 Typical MAP Page

**A1.14** Using Fig. A1 as an example, the path followed should be:

- (a) At (1) and (2), make the decisions called for at these steps as before.
- (b) At step (3), dial the DID station number by performing substeps (3A), (3B) and (3C).

**TOOLS, TEST EQUIPMENT AND SPECIAL INSTRUCTIONS**

**A1.15** Any tools, test equipment or special instructions that the operator requires or needs to know are stated on the first page of each MAP. If the MAP is long, and contains a number of sub procedures, these are listed in synopsis form on the first page.



## APPENDIX 2

### SYSTEM PROGRAMMING PROCEDURES

#### GENERAL

**A2.01** This appendix details the preferred order in which the SX-100 or SX-200 PABX should be programmed for features and options required by the customer. This appendix also includes procedures for programming Multi Digit Toll Control, Speed Call and Automatic Route Selection.

**A2.02** Table A2-1 details the order of the standard system programming procedures. Table A2-2 details the order of the Multi Digit Toll Control programming procedures. Table A2-3 details the order of Speed Call programming of the system. Table A2-4 details the order of Route Selection programming of the system.

**TABLE A2-1  
STANDARD**

Step	Title	MAP
1	System Programming	210-201
2	Select Programming Options	210-202
3	Program System Options	210-203
4	Program COS Options	210-204
5	Assign Feature Access Codes	210-205
6	Program New Extensions	210-206
7	Program Extension Hunt Group	210-207
8	Program New Non Dial-In Trunks	210-208
9	Program New Dial-In Trunks	210-209
10	Program New DID Trunks	210-210
11	Program Trunk Groups	210-211
12	Terminate Programming Mode	210-212
13	Range Programming for Extensions	210-213

**TABLE A2-2  
MULTI DIGIT TOLL CONTROL**

Order	Option	MAP No.
1	Selection of Extended Programming	210-221
2	Absorb Plan	210-222
3	Control Plan	210-223
4	Trunk Group Class of Restriction	210-224
5	Restriction Tables	210-225
6	Add an Entry	210-226
7	Displaying Sequential Entries	210-227
8	Search for an Entry	210-228
9	Delete an Entry	210-229
10	Terminating Programming	210-274

TABLE A2-3  
SPEED CALL

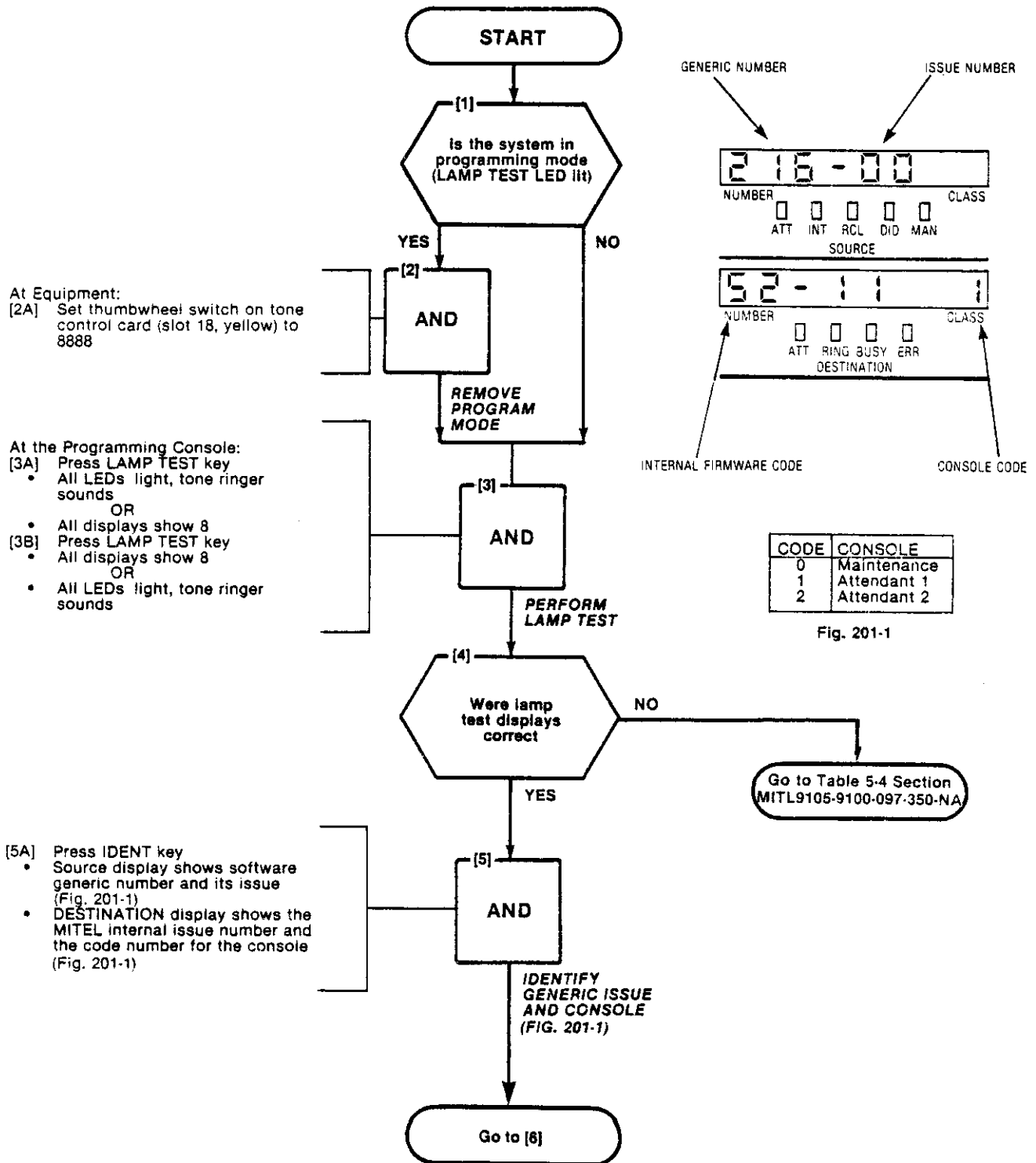
Order	Option	MAP No.
1	Selection of Extended Programming	210-221
2	Programming Personal Tables	210-242
3	Convert Tables from Personal to Common Use	210-243
4	Terminating Programming	210-274

TABLE A2-4  
AUTOMATIC ROUTE SELECTION

Order	Option	MAP No.
1	Code Table Quantity Selection or Change	210-250
2	Area Code Table Programming	210-251
3	Review Area Code Table Programming	210-252
4	Delete an Area Code Table	210-253
5	Area Code/Office Code Programming	210-254
6	Review/Delete Part of All Area Code/Office Code	210-255
7	Program Modify Digits	210-256
8	To Review or Delete Modify Digit Table	210-257
9	Route Table Programming	210-258
10	To Review or Delete a Route Table	210-259
11	Review or Delete Routes	210-260
12	Terminate Programming	210-274

SECTION MITL9105/9110-097-210-NA

SYSTEM PROGRAMMING
MAP210-201
Issue 2, February 1982
Sheet 1 of 2



SECTION MITL9105/9110-097-210-NA

SYSTEM PROGRAMMING
MAP210-201
Issue 2, February 1982
Sheet 2 of 2

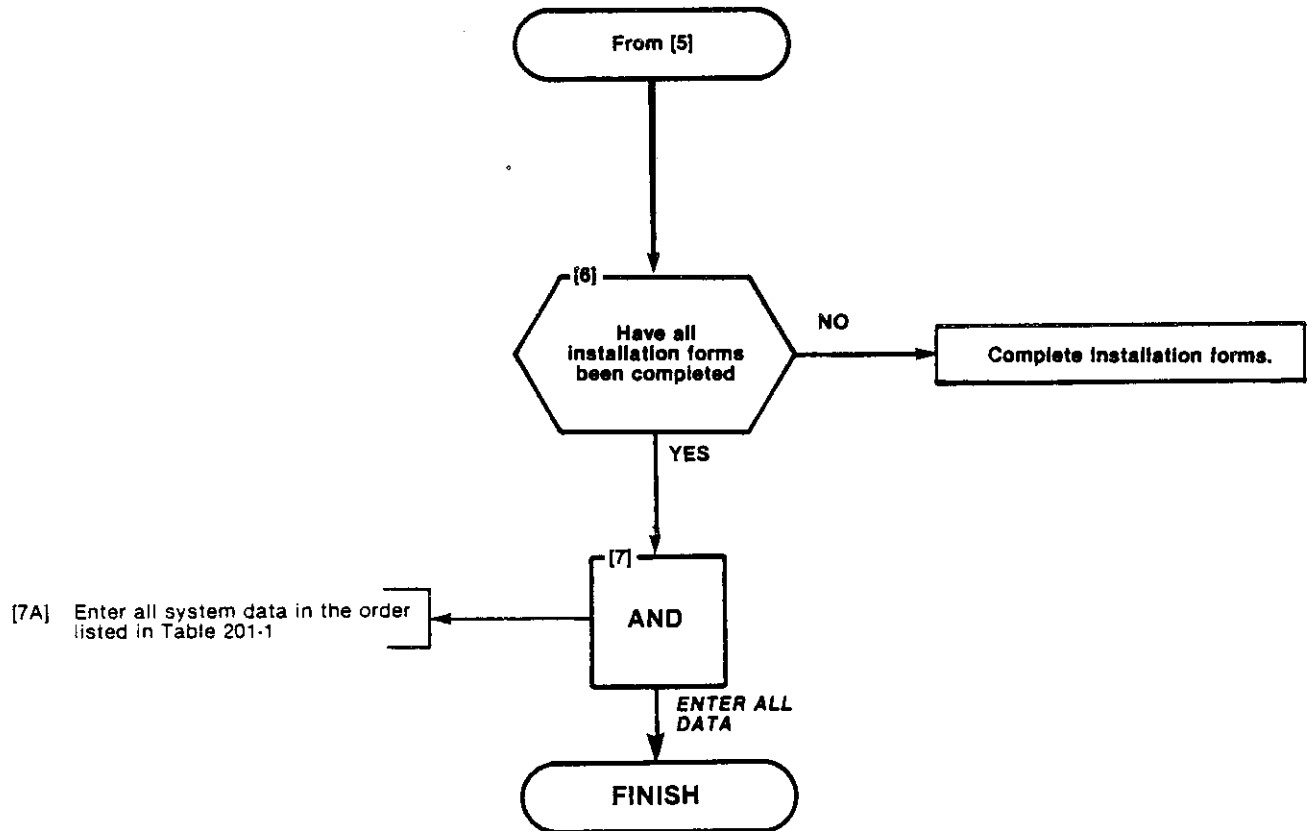


TABLE 201-1  
STANDARD PROGRAMMING

Step	Title	MAP
1	Select Programming Mode	210-202
2	Program System Options	210-203
3	Program COS Options	210-204
4	Assign Feature Access Codes	210-205
5	Program New Extensions	210-206
6	Program Extension Hunt Group	210-207
7	Program New Non Dial-In Trunks	210-208
8	Program New Dial-In Trunks	210-209
9	Program New DID Trunks	210-210
10	Program Trunk Groups	210-211
11	Terminate Programming Mode	210-212
12	Range Programming	210-213



SELECT PROGRAMMING MODE
MAP210-202
Issue 2, February 1982
Sheet 1 of 6

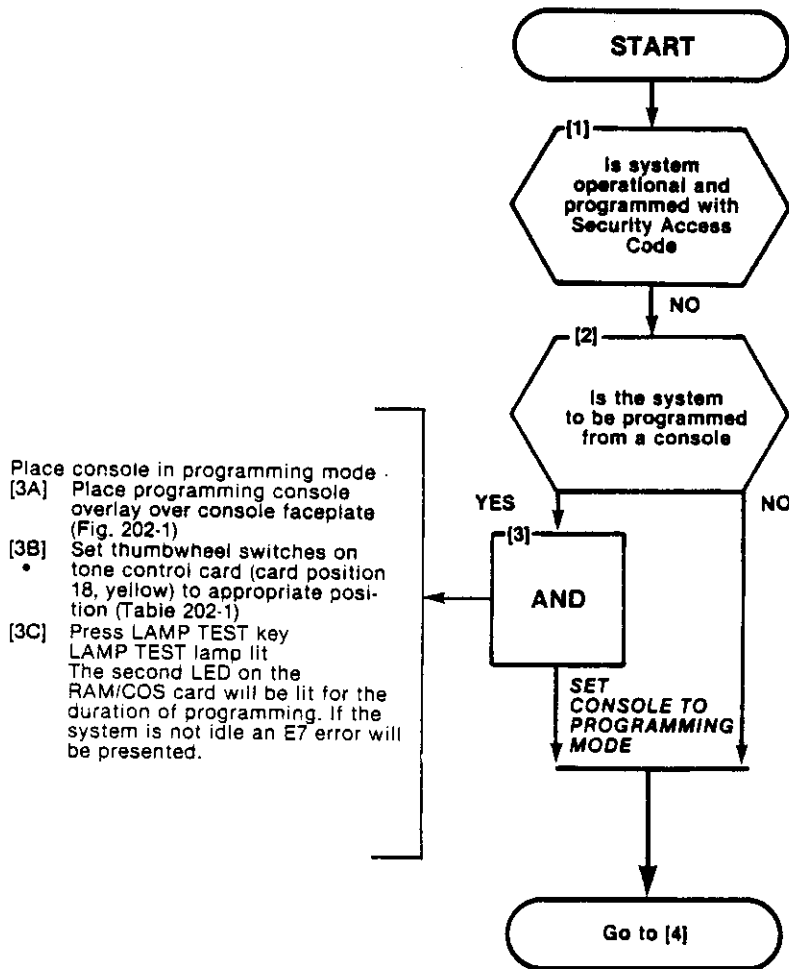
**CAUTION**  
Equipment must be in non-program mode at start. See MAP210-201 Step [2].

Place console in program mode by dialing Security Access Code and go to required MAPs (210-203 through -214)

**NOTE**  
To use Programming Security Access Code the following criteria must apply:  
• Feature 29 (MAP210-205) is programmed with the code

**NOTE**  
When using the Maintenance console, plug it in to the maintenance connector on the cabinet maintenance panel.

CODE	CONSOLE
7770	Maintenance Attendant No. 1 Attendant No. 2
7771	
7772	



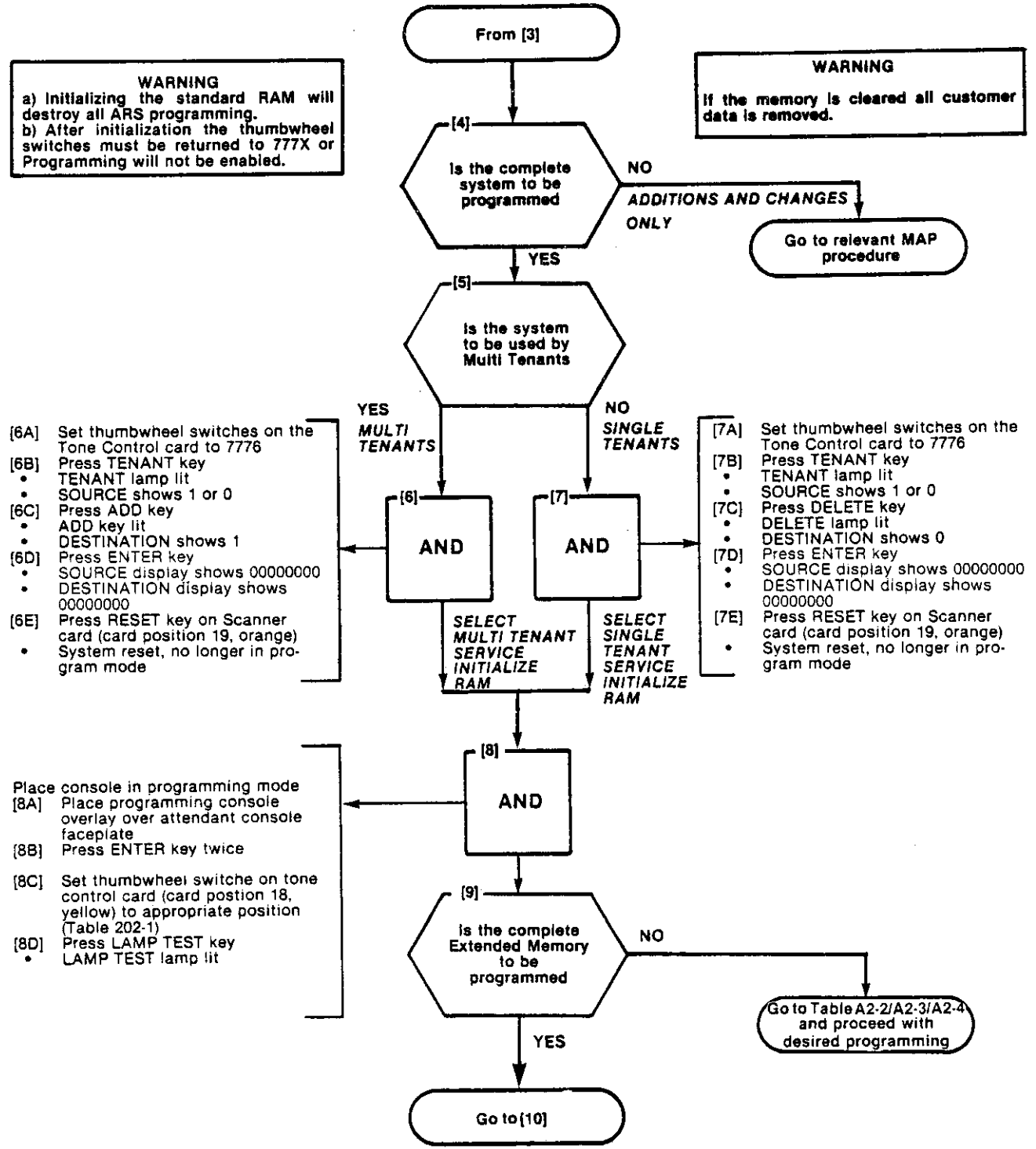
Place console in programming mode .  
[3A] Place programming console overlay over console faceplate (Fig. 202-1)  
• [3B] Set thumbwheel switches on tone control card (card position 18, yellow) to appropriate position (Table 202-1)  
[3C] Press LAMP TEST key  
LAMP TEST lamp lit  
The second LED on the RAM/COS card will be lit for the duration of programming. If the system is not idle an E7 error will be presented.

SECTION MITL9105/9110-097-210-NA

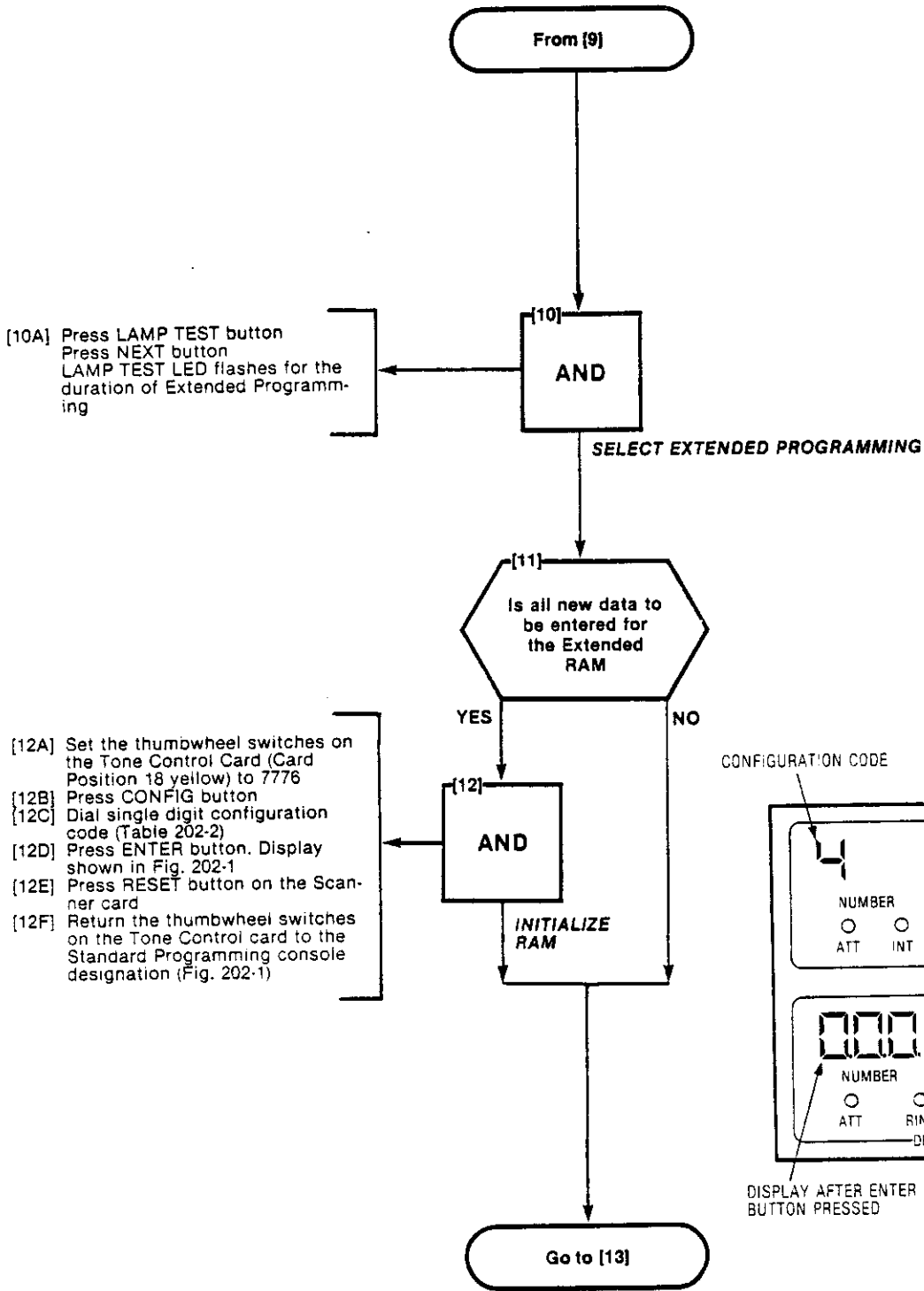
SELECT PROGRAMMING MODE
MAP210-202
Issue 2, February 1982
Sheet 2 of 6

**WARNING**  
a) Initializing the standard RAM will destroy all ARS programming.  
b) After initialization the thumbwheel switches must be returned to 777X or Programming will not be enabled.

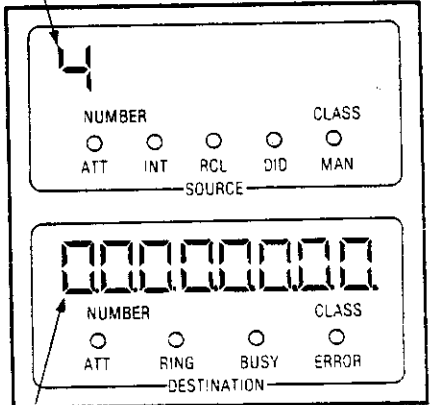
**WARNING**  
If the memory is cleared all customer data is removed.



SELECT PROGRAMMING MODE
MAP210-202
Issue 2, February 1982
Sheet 3 of 6



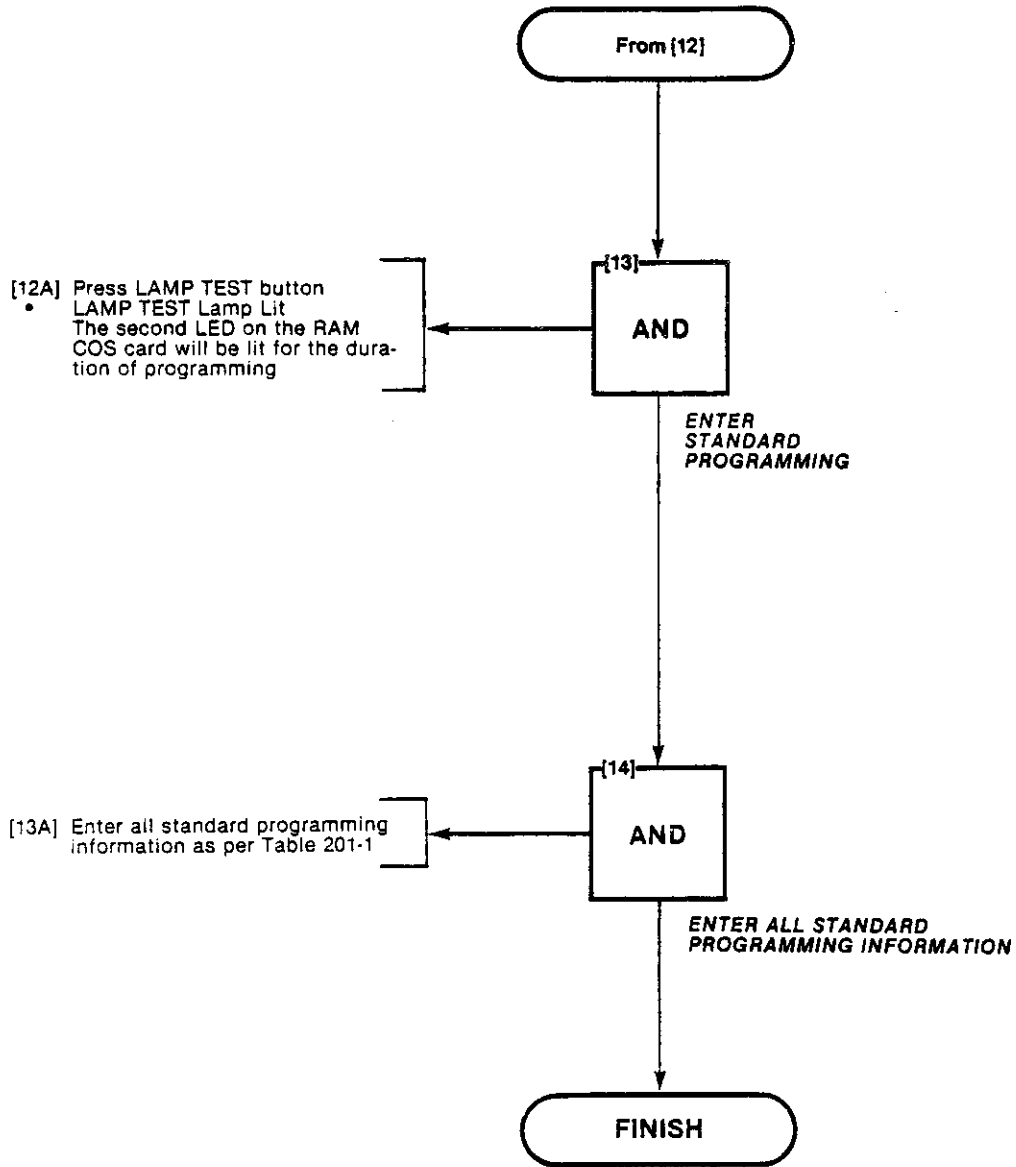
CONFIGURATION CODE



DISPLAY AFTER ENTER  
BUTTON PRESSED

SECTION MITL9105/9110-097-210-NA

SELECT PROGRAMMING MODE
MAP210-202
Issue 2, February 1982
Sheet 4 of 6



SELECT PROGRAMMING MODE
MAP210:202
Issue 2, February 1982
Sheet 5 of 6

TABLE 201-2  
CONFIGURATIONS

CONFIGURATION	WAKE-UP	MULTI DIGIT TOLL CONTROL	SPEED CALL	AUTOMATIC ROUTE SELECTION
1	WU 1	TC 2	—	ARS 1
2	—	TC 2	SC 1	ARS 1
3	—	TC 1	SC 2	ARS 1
4	—	TC 3	—	ARS 1
5	WU 1	TC 1	—	ARS 2
6	—	—	SC 1	ARS 3
7	WU 1	TC 1	SC 1	ARS 1
	WU Automatic Wake-Up	TC 1 Basic TC 2 Standard TC 3 Extended	SC 1 Standard SC 2 Extended	ARS 1 Basic ARS 2 Standard ARS 3 Extended

SECTION MITL9105/9110-097-210-NA

SELECT PROGRAMMING MODE
MAP210-202
Issue 2, February 1982
Sheet 6 of 6

**PROGRAMMING CONSOLE**  
(LAMP TEST LED LIT)

Console Programming Overlay  
Form 1-10-82 Issue 1

LAMP TEST	TENANT	OPTION	COS DEFINE	FEATURE	EXTN	TRUNK	HUNT GROUP	TRUNK GROUP	CANCEL
TYPE	LDN NUMBER	DAY NUMBER	NIGHT 1	NIGHT 2	1/2	OVFLO GROUP	ACCESS CODE	ADD	ENTER
EQPT NUMBER	EXTN NUMBER	COS NUMBER	TOLL DENY	BUSY NUMBER	LAMP PICKUP NUMBER	PICKUP GROUP	CON FIRM	DELETE	NEXT

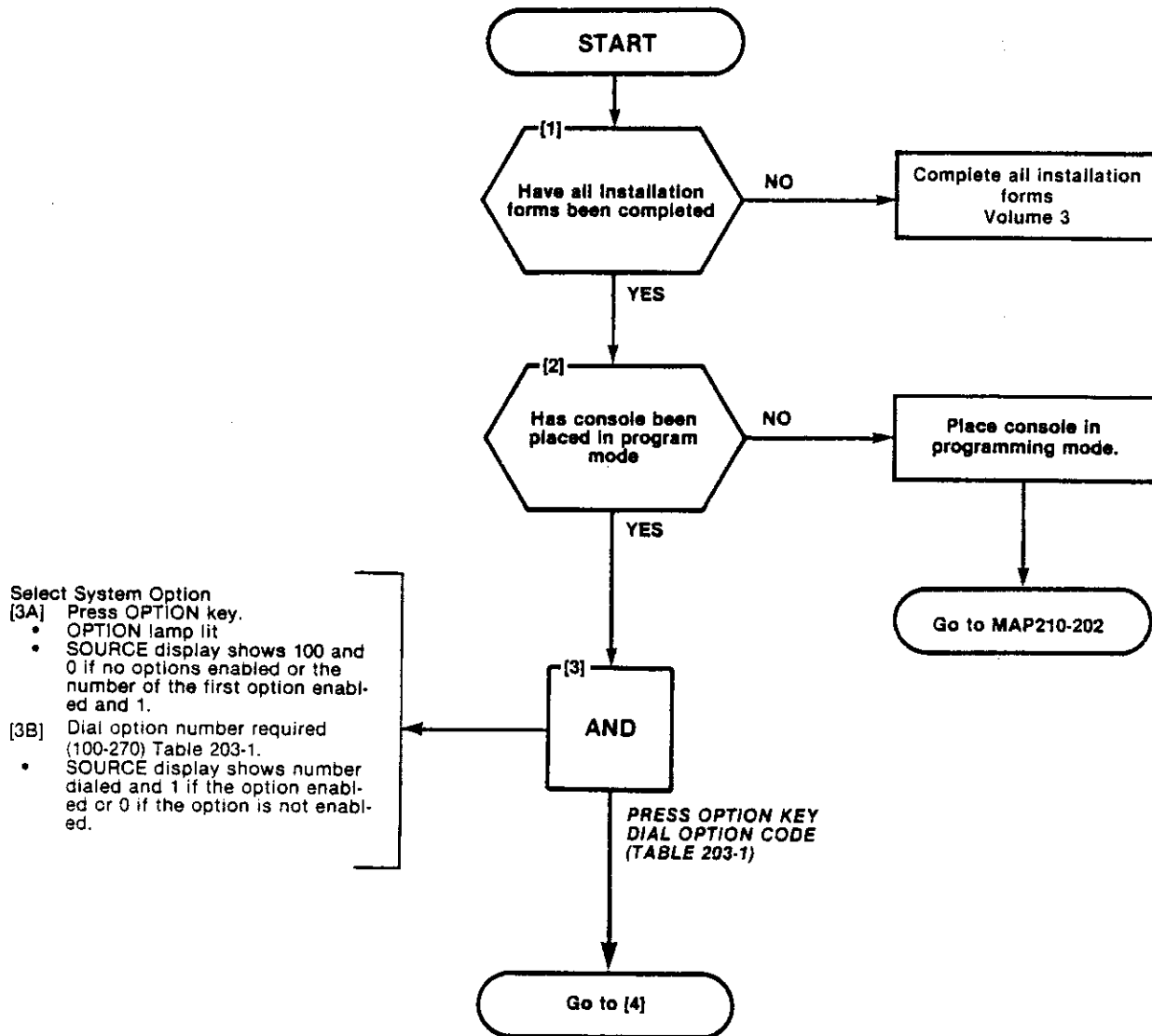
Fig. 202-1 Programming Console Overlay

PROGRAM SYSTEM OPTIONS
MAP210-203
Issue 2, February 1982
Sheet 1 of 5

**NOTES**

- (1) All entries are made from the console dial pad.
- (2) OPTION lamp lit throughout procedure.
- (3) A display of E0 indicates that an incorrect key had been pressed. Press the key specified.
- (4) Consult Table 2-2 for System Option Conflicts.

**SYNOPSIS**  
 Select option mode.  
 Enter required system codes, (100-270)  
 Press ADD or DELETE keys.  
 Press ENTER key.



## SECTION MITL9105/9110-097-210-NA

PROGRAM SYSTEM OPTIONS
MAP210-203
Issue 2, February 1982
Sheet 2 of 5

**TABLE 203-1  
SYSTEM OPTIONS**

OPTION NAME	OPTION NUMBER	OPTION NAME	OPTION NUMBER
DISCRIMINATING RINGING	100	ATTENDANT CO TRUNK-CO TRUNK CONNECT ENABLE	129
TRANSFER DIAL TONE	101	ATTENDANT CO TRUNK-NON CO TRUNK CONNECT ENABLE	130
FLEXIBLE NIGHT SERVICE	102	ATTENDANT NON CO TRUNK-NON CO TRUNK CONNECT	
NIGHT SERVICE AUTOMATIC SWITCHING	103	ENABLE	131
TAFAS AVAILABLE DURING DAY	104	CONTROLLED OUTGOING RESTRICTION SET-UP	132
OUTGOING TRUNK CAMP-ON	105	CONTROLLED STATION RESTRICTION SET-UP	133
OUTGOING TRUNK CALLBACK	106	CONTROLLED STATION TO STATION RESTRICTION SET-UP	134
CAN FLASH IF TALKING TO AN INCOMING TRUNK	107	ATTENDANT DISA CODE SET-UP ENABLE	135
CAN FLASH IF TALKING TO AN OUTGOING TRUNK	108	LIMITED WAIT FOR DIAL TONE	136
CAN FLASH IF TALKING TO STATION	109	MESSAGE WAITING SET-UP (LAMP)	137
CANNOT DIAL A TRUNK AFTER FLASHING	110	MESSAGE WAITING SET-UP (BELL)	138
CANNOT DIAL A TRUNK AFTER FLASHING IF HOLDING OR IN CONFERENCE WITH A TRUNK	111	ATTENDANT TIMED RECALL - CAMP-ON - 20s	139
		ATTENDANT TIMED RECALL - CAMP-ON - 40s	140
LOCKOUT ALARM ENABLE	112	ATTENDANT TIMED RECALL - DON'T ANSWER - 20s	141
TENANT SERVICE (SET AUTOMATICALLY WHEN TENANT SERVICE IS SELECTED WHEN PROGRAMMING)	113	ATTENDANT TIMED RECALL - DON'T ANSWER - 40s	142
		ATTENDANT TIMED RECALL - HOLD - 20s	143
TENANT SERVICE - SEPARATE CONSOLES	114	ATTENDANT TIMED RECALL - HOLD - 40s	144
		NIGHT SERVICE TIMEOUT - 20s	145
VACANT NUMBER INTERCEPT TO ATTENDANT	115	NIGHT SERVICE TIMEOUT - 40s	146
ILLEGAL ACCESS INTERCEPT TO ATTENDANT	116	CALL FORWARDING - DON'T ANSWER TIMEOUT -20s	147
DID/DIAL-IN/CCSA VACANT/ILLEGAL INTERCEPT TO ATTENDANT	117	CALL FORWARDING - DON'T ANSWER TIMEOUT -40s	148
ATTENDANT CAMP-ON	118	CALL FORWARDING - BUSY (SYSTEM, DID, DIAL-IN TIE TRUNK, CCSA)	149
ATTENDANT CONFERENCE	119	CALL FORWARDING - DON'T ANSWER (SYSTEM, DID, DIAL-IN TIE TRUNK, CCSA)	150
ATTENDANT BUSY OVERRIDE	120		
ATTENDANT SERIAL CALL	121	PARK AND CALL-HOLD RECALL - 2 MINUTES	151
BELL OFF ENABLE	122	PARK AND CALL-HOLD RECALL - 4 MINUTES	152
PAGE BUTTON ENABLE	123	END OF DIAL SIGNAL FOR OUTGOING TRUNKS (#)	153
NEW CALL TONE ENABLE	124	24 HOUR CLOCK	154
BOTH MODE STANDARD	125	FIRST DIGIT TOLL DENY	155
CALLBACK BUTTON ENABLE	126	MESSAGE REGISTRATION ENABLE	156
TRUNK BUSY-OUT ENABLE	127	MESSAGE REGISTRATION: COUNT ADDITIONAL	
BOTH BUTTON ENABLE	128	SUPERVISIONS	157



PROGRAM SYSTEM OPTIONS

MAP210-203

Issue 2, February 1982

Sheet 3 of 5

TABLE 203-1  
SYSTEM OPTIONS

OPTION NAME	OPTION NUMBER	OPTION NAME	OPTION NUMBER
MESSAGE REGISTRATION: TIMER = 20 SECONDS	158	AUTOMATIC WAKEUP PRINT	191
MESSAGE REGISTRATION: TIMER = 40 SECONDS	159	AUTOMATIC WAKEUP MUSIC ON HOLD	192
MESSAGE REGISTRATION: MULTIPLIER = 4 UNITS	160	ROOM MESSAGE REGISTER AUDIT ENABLE	193
MESSAGE REGISTRATION: MULTIPLIER = 3 UNITS	161	ROOM STATUS AUDIT ENABLE	194
MESSAGE REGISTRATION: MULTIPLIER = 2 UNITS	162	MESSAGE REGISTER & MESSAGE WAITING CHANGE PRINT ENABLE	195
MESSAGE REGISTRATION: SURCHARGE = 8 UNITS	163		
MESSAGE REGISTRATION: SURCHARGE = 7 UNITS	164	IGNORE PRINT ENABLE	196
MESSAGE REGISTRATION: SURCHARGE = 6 UNITS	165	REMOTE SYSTEM RESET - PROTECTION OVERRIDE	197
MESSAGE REGISTRATION: SURCHARGE = 5 UNITS	166	EXTENSION NON-CO TRUNK TO TRUNK CONNECT ENABLE	198
MESSAGE REGISTRATION: SURCHARGE = 4 UNITS	167	MULTI DIGIT TOLL CONTROL ENABLE	199
MESSAGE REGISTRATION: SURCHARGE = 3 UNITS	168	TRAFFIC MEASUREMENT ENABLE	200
MESSAGE REGISTRATION: SURCHARGE = 2 UNITS	169	TRAFFIC MEASUREMENT EXTREME VALUE MODE	201
MESSAGE REGISTRATION: SURCHARGE = 1 UNIT	170	TRAFFIC MEASUREMENT COMPACT REPORT	202
DID TO NON-CO TRUNKS VIA ATTENDANT INHIBIT	171	TRAFFIC MEASUREMENT POLLING	203
GUEST ROOM BUTTON ENABLE	172	TRAFFIC MEASUREMENT AUTOPRINT	204
ROOM STATUS BUTTON ENABLE & DISPLAY ENABLE	173	IDENTIFIED TRUNK GROUP ENABLE	205
DO NOT DISTURB INTERCEPT TO ATTENDANT	174	INHIBIT AUTOMATIC SUPERVISION	206
DO NOT DISTURB AND MESSAGE WAITING DISPLAYS	175	PRINTER CARRIAGE RETURN DELAY	207
SINGLE DIGIT DIALING ENABLE	176	ZERO MESSAGE REGISTER AFTER ROOM REGISTER AUDIT	208
SINGLE DIGIT DIALING TIME-OUT = 3 SECONDS	177	TRAFFIC MEASUREMENT: CONSOLE FUNCTION ENABLE	209
SINGLE DIGIT DIALING TIME-OUT = 5 SECONDS	178	ATTENDANT PRINTER CONTROL ENABLE	210
ATTENDANT STATION BUSY-OUT ENABLE	179	SYSTEM ID ENABLE	211
FLASH TIMING = 0.7 SECONDS	180	NIGHTBELL 3 WITH MINOR ALARM ENABLE	212
FLASH TIMING = 0.9 SECONDS	181	PRINTOUTS: EXTRA LINE FEEDS	213
FLASH TIMING = 1.1 SECONDS	182	WAKE-UP ALARM ENABLE	214
TRUNK RECALL PARTIAL INHIBIT	183	RESERVED	215
RESERVED	184	SPEED CALL ENABLE	216
RESERVED	185	SPEED CALL PROGRAMMING ENABLE	217
RESERVED	186	SPEED CALL CONFIDENTIAL NUMBER DISPLAY ENABLE	218
RESERVED	187	RESERVED	219
RESERVED	188	STATION MESSAGE DETAIL RECORDING	220
RESERVED	189	OUTGOING CALLS	
AUTOMATIC WAKEUP ENABLE	190	STATION MESSAGE DETAIL RECORDING INCOMING CALLS	221

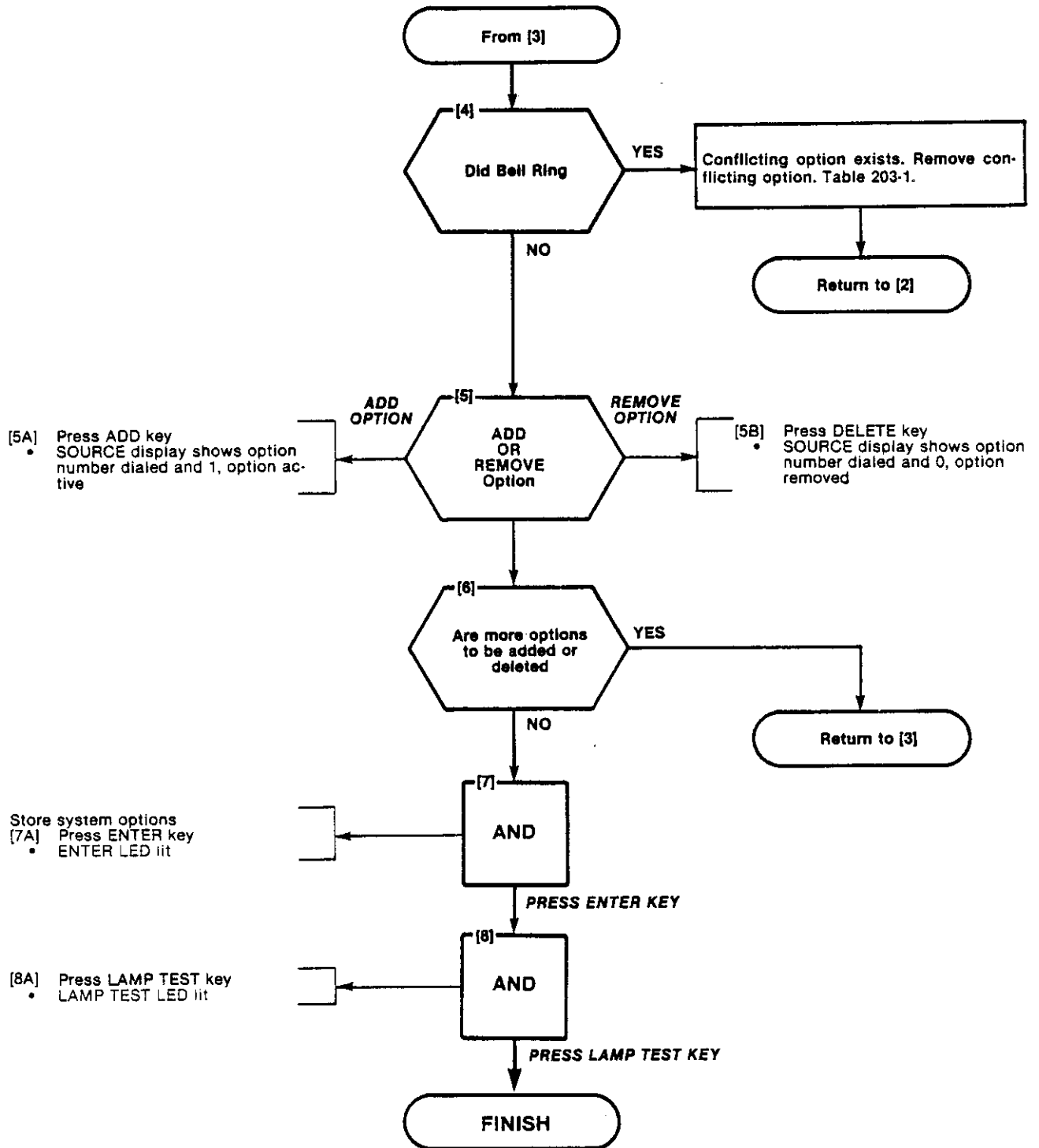
**SECTION MITL9105/9110-097-210-NA**

PROGRAM SYSTEM OPTIONS
MAP210-203
Issue 2, February 1982
Sheet 4 of 5

**TABLE 203-1 (CONT'D)  
SYSTEM OPTIONS**

OPTION NAME	OPTION NUMBER	OPTION NAME	OPTION NUMBER
SMDR: EXTENDED RECORD	222	INCOMING TO OUTGOING CALL FORWARD ENABLE	251
SMDR: RECORD METER PULSES	223	A.R.S. ENABLE	252
SMDR: INDICATE LONG CALLS	224	A.R.S. UNRESTRICTED OFFICE CODE ENABLE	253
SMDR: DROP INCOMPLETE OUTGOING CALLS	225	MITEL PRINTER CONDENSED SMDR PRINT	254
SMDR: RECORD ONLY INCOMING CO CALLS (CCSA & NON DIAL TIE TRUNKS)	226	PRINTER TRANSMIT ADDITIONAL NULLS	255
SMDR: DROP CALLS OF LESS THAN 8 DIGITS	227	RANGE PROGRAMMING ENABLE	256
DISCRIMINATING DIAL TONE	228	HANDS-FREE ENABLE	257
SPECIAL ANI FEATURE	229	EXTERNAL CALL-FORWARDING ENABLE	258
ACCOUNT CODE ENABLE	230	CALL FORWARDING DON'T ANSWER TIMEOUT - 10s	259
ACCOUNT CODE LENGTH: 4 DIGITS	231	CUSTOMER PRINT-OUT ENABLE	260
ACCOUNT CODE LENGTH: 8 DIGITS	232	SERIAL CALL OVERRIDE FLASH BUTTON ENABLE	261
ACCOUNT CODE LENGTH: 12 DIGITS	233	DATA DEMULTIPLEX ENABLE	262
VARIABLE LENGTH ACCOUNT CODES	234	MUSIC ON HOLD DISABLE	263
CUSTOMER PROGRAMMING ENABLE	235	RETURN A.R.S. DIAL TONE	264
CUSTOMER RANGE AND TENENT PROGRAMMING ENABLE	236	RINGING TIMEOUT 1 MINUTE	265
CUSTOMER PROGRAMMING OF SYSTEM OPTIONS ENABLE	237	DIGIT TRANSLATION PLAN 1	266
CUSTOMER PROGRAMMING OF COS DEFINITIONS ENABLE	238	DIGIT TRANSLATION PLAN 2	267
CUSTOMER PROGRAMMING OF FEATURES ENABLE	239	DIGIT TRANSLATION PLAN 3	268
CUSTOMER PROGRAMMING OF EXTENSIONS ENABLE	240	A.R.S. DIAL 0 TIMEOUT 5 SECS.	269
CUSTOMER PROGRAMMING OF TRUNKS ENABLE	241	A.R.S. DIAL 0 TIMEOUT 10 SECS.	270
CUSTOMER PROGRAMMING OF HUNT GROUPS ENABLE	242		
CUSTOMER PROGRAMMING OF TRUNK GROUPS ENABLE	243		
CUSTOMER PROGRAMMING OF TOLL CONTROL ENABLE	244		
CUSTOMER PROGRAMMING OF SPEED CALL ENABLE	245		
CUSTOMER PROGRAMMING OF A.R.S. ENABLE	246		
RESERVED	247		
RESERVED	248		
RESERVED	249		
RESERVED	250		

PROGRAM SYSTEM OPTIONS
MAP210-203
Issue 2, February 1982
Sheet 5 of 5

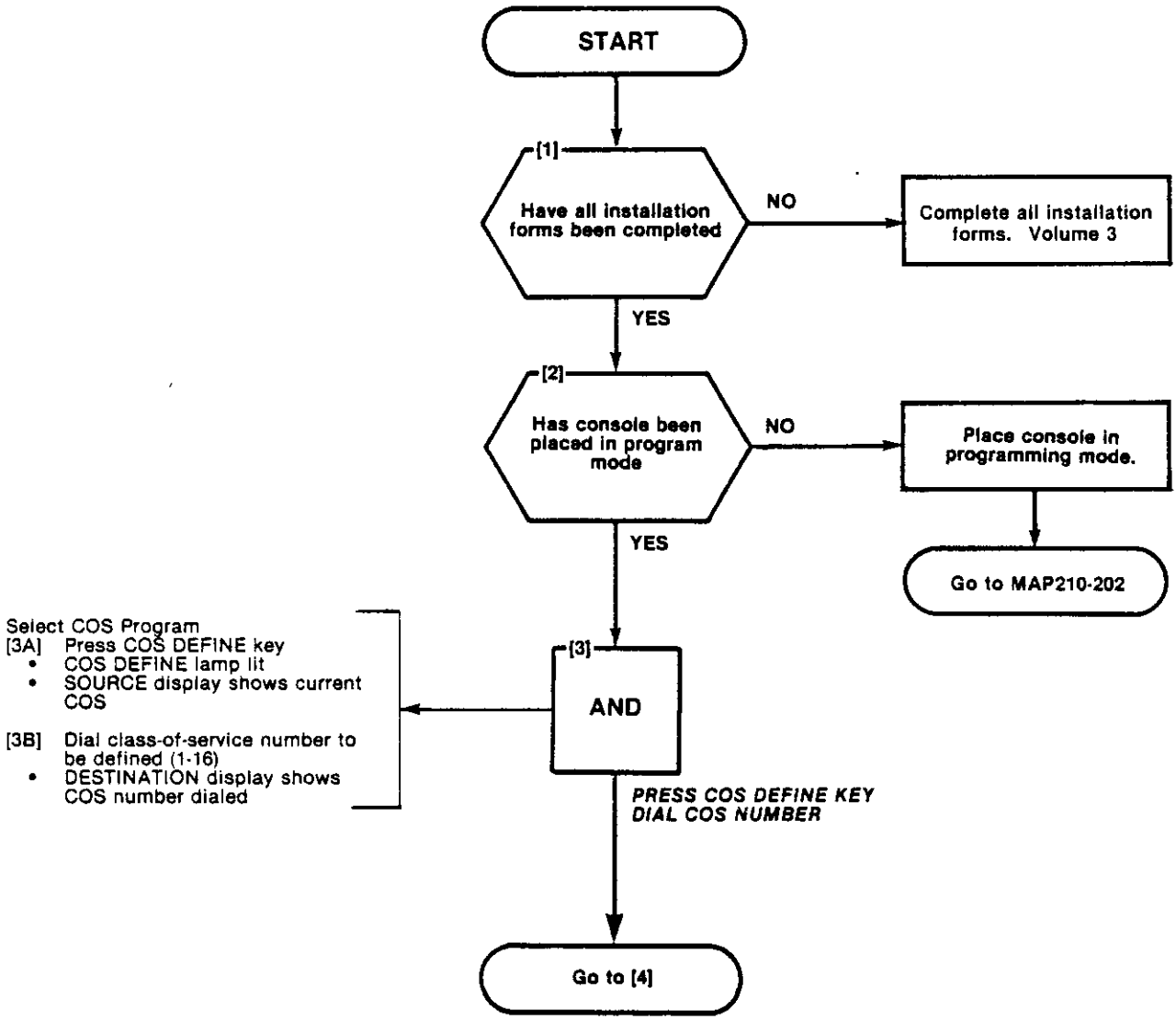




PROGRAM COS OPTIONS
MAP210-204
Issue 2, February 1982
Sheet 1 of 6

(1) All entries are made from the console dial pad  
 (2) COS DEFINE lamp remains lit through procedure  
 (3) A display of EO indicates that an incorrect key was pressed; press key specified

**SYNOPSIS**  
 Define COS group (1-16)  
 Enter all option codes (33-101)  
 Press ADD or Delete keys  
 Press ENTER key



SECTION MITL9105/9110-097-210-NA

PROGRAM COS OPTIONS
MAP210-204
Issue 2, February 1982
Sheet 2 of 6

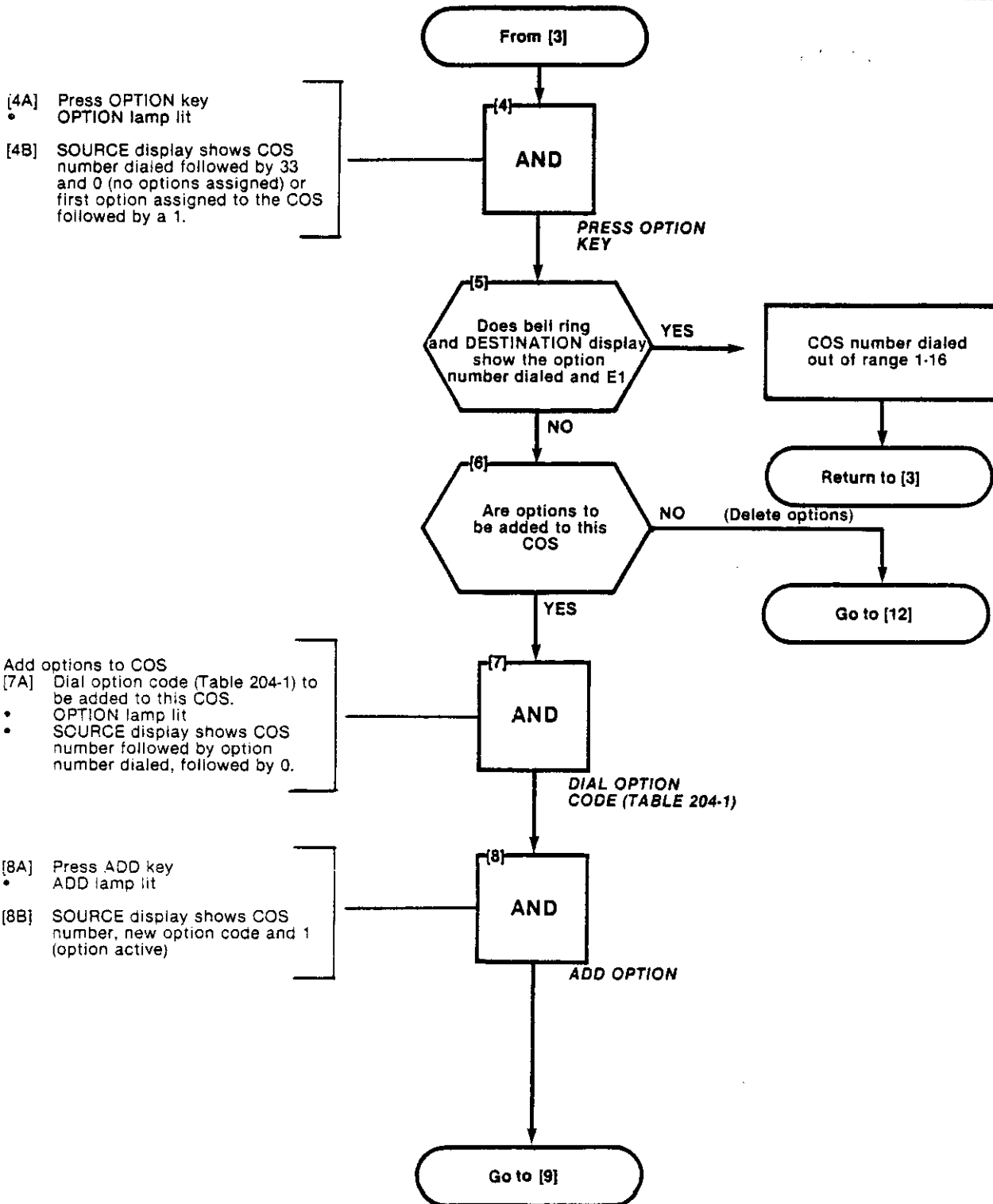
**TABLE 204-1  
CLASS-OF-SERVICE OPTIONS**

OPTION #	OPTION NAME	OPTION #	OPTION NAME
33	AUTOMATIC CALLBACK	77	MESSAGE WAITING APPLIES
34	CALL FORWARDING - BUSY	78	ROOM DO NOT DISTURB ENABLE
35	CALL FORWARDING - DON'T ANSWER	79	CALL HOLD AND RETRIEVE ACCESS
36	CALL FORWARDING - FOLLOW ME	80	ROOM STATUS APPLIES
37	CALL PARK	81	CALL FORWARD SYSTEM INHIBIT
38	NEVER A FORWARDEE	82	ALARM CALL ENABLE
39	DIRECTED CALL PICKUP	83	FORCED ACCOUNT CODE ENTRY
40	EXECUTIVE BUSY OVERRIDE	84	NO SMDR RECORD APPLIES
41	DATA SECURITY	85	SPEED CALL TABLE 1 & 2 ACCESS
42	STATION OVERRIDE SECURITY	86	SPEED CALL TABLE 3 & 4 ACCESS
43	INWARD RESTRICTION (DID)	87	SPEED CALL TABLE 5 & 6 ACCESS
44	ORIGINATE ONLY	88	SPEED CALL TABLE 7 & 8 ACCESS
45	RECEIVE ONLY	89	SPEED CALL TABLE 9 & 10 ACCESS
46	FLASH DISABLE	90	SPEED CALL TABLE 11 & 12 ACCESS
47	NEVER A CONSULTEE	91	SPEED CALL TABLE 13 & 14 ACCESS
48	BROKER'S CALL	92	SPEED CALL TABLE 15 & 16 ACCESS
49	STATION CONFERENCE	93	SPEED CALL TABLE 17 & 18 ACCESS
50	MEET-ME CONFERENCE	94	CANNOT DIAL A TRUNK AFTER FLASHING
51	CAMP-ON	95	HANDS FREE STATION
52	DO NOT OVERFLOW	96	A.R.S. RESTRICTED
53	PAGING ACCESS	97	EXTERNAL CALL FORWARD ENABLE
54	TAFAS ACCESS	98	TRANSFER WITH PRIVACY
55	HOLD PICKUP	99	INCOMING TRUNK ROTARY DIAL ONLY
56	ACCOUNT CODE ACCESS	100	A.R.S. ALLOWED
57	MANUAL LINE	101	EARTH GROUND BUTTON
58	CONTACT MONITOR		
59	NON-CO TRUNKS VIA ATTENDANT INHIBIT		
60	CO TRUNKS VIA ATTENDANT INHIBIT		
61	NO DIAL TONE		
62	FLASH FOR ATTENDANT		
63	H/M STN-STN RESTRICT APPLIES		
64	MESSAGE REGISTER		
65	TRUNK GROUP 1 ACCESS		
66	TRUNK GROUP 2 ACCESS		
67	TRUNK GROUP 3 ACCESS		
68	TRUNK GROUP 4 ACCESS		
69	TRUNK GROUP 5 ACCESS		
70	TRUNK GROUP 6 ACCESS		
71	TRUNK GROUP 7 ACCESS		
72	TRUNK GROUP 8 ACCESS		
73	TRUNK GROUP 9 ACCESS		
74	TRUNK GROUP 10 ACCESS		
75	TRUNK GROUP 11 ACCESS		
76	TRUNK GROUP 12 ACCESS		

**TABLE 204-2  
OPTION CONFLICTS**

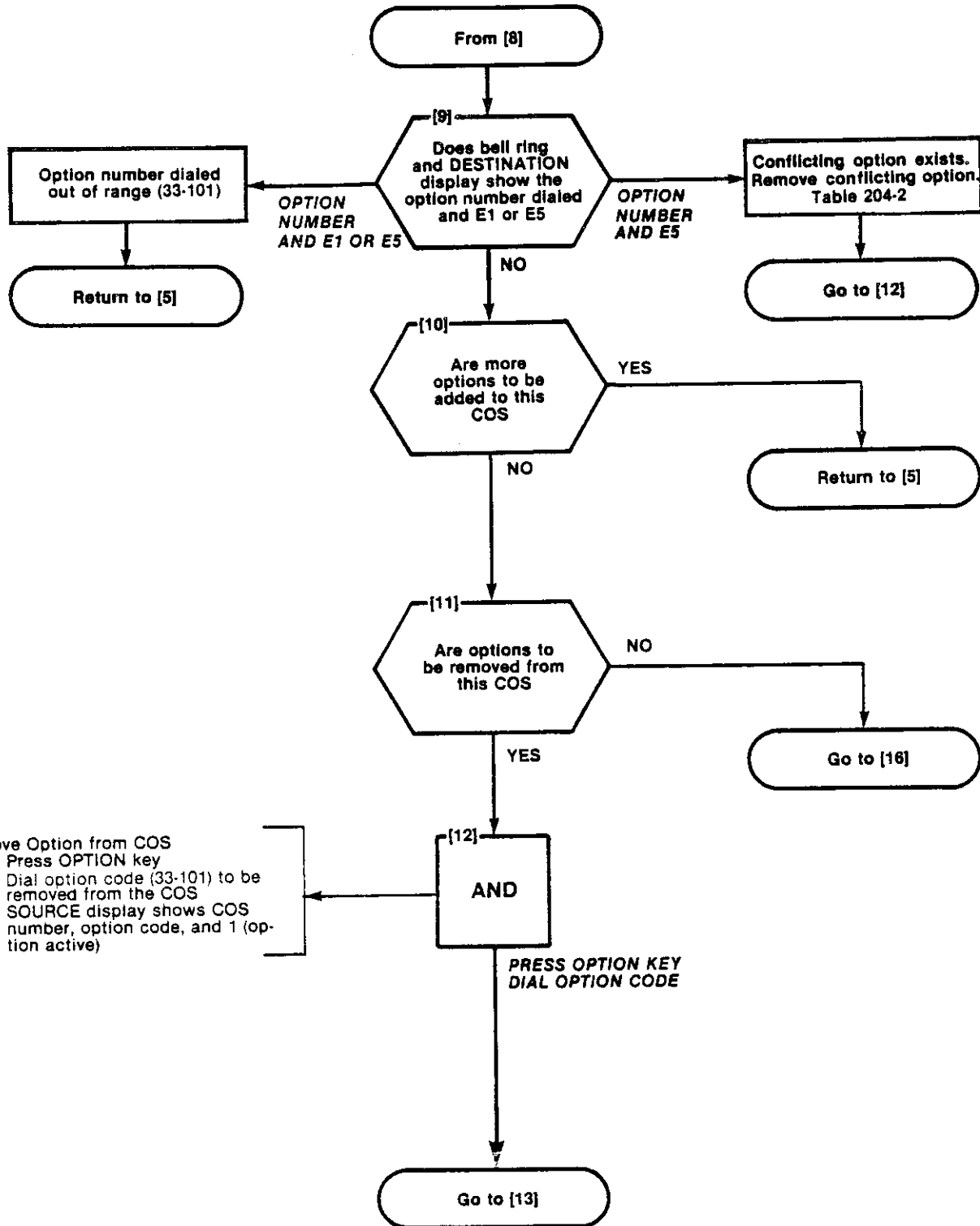
Option		Option
45	Receive Disable	and 58 Contact Monitor
46	Flash Disable	and 48 Brokers Call
46	Flash Disable	and 49 Station Conference
46	Flash Disable	and 62 Flash for Attendant
48	Brokers Call	and 49 Station Conference
62	Flash for Attendant	and 49 Station Conference
62	Flash for Attendant	and 48 Brokers Call

PROGRAM COS OPTIONS
MAP210-204
Issue 2, February 1982
Sheet 2 of 6



SECTION MITL9105/9110-097-210-NA

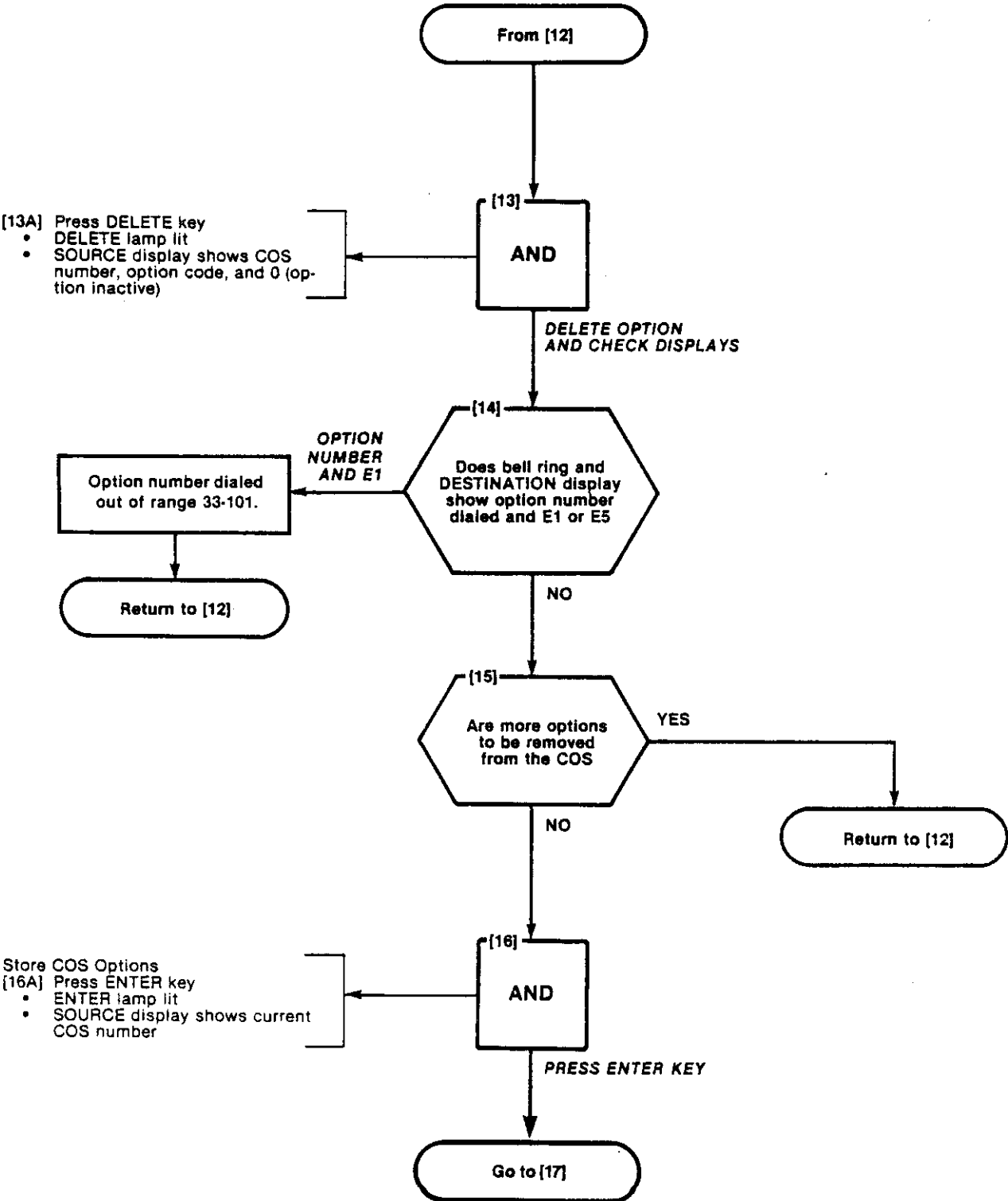
PROGRAM COS OPTIONS
MAP210-204
Issue 2, February 1982
Sheet 4 of 6



Remove Option from COS  
 [12A] Press OPTION key  
 [12B] Dial option code (33-101) to be removed from the COS  
 • SOURCE display shows COS number, option code, and 1 (option active)

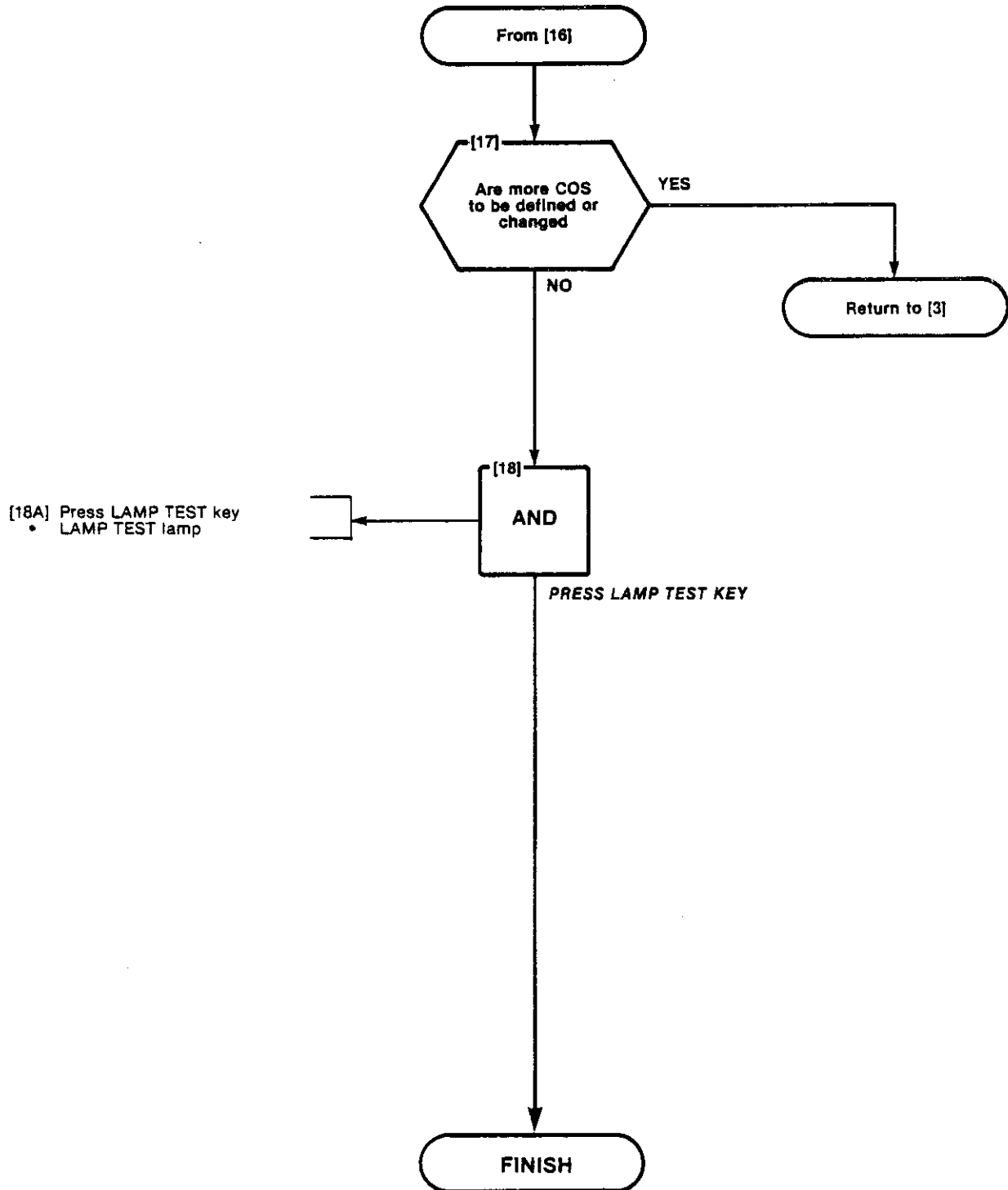


PROGRAM COS OPTIONS
MAP210-204
Issue 2, February 1982
Sheet 5 of 6



SECTION MITL9105/9110-097-210-NA

PROGRAM COS OPTIONS
MAP210-204
Issue 2, February 1982
Sheet 6 of 6

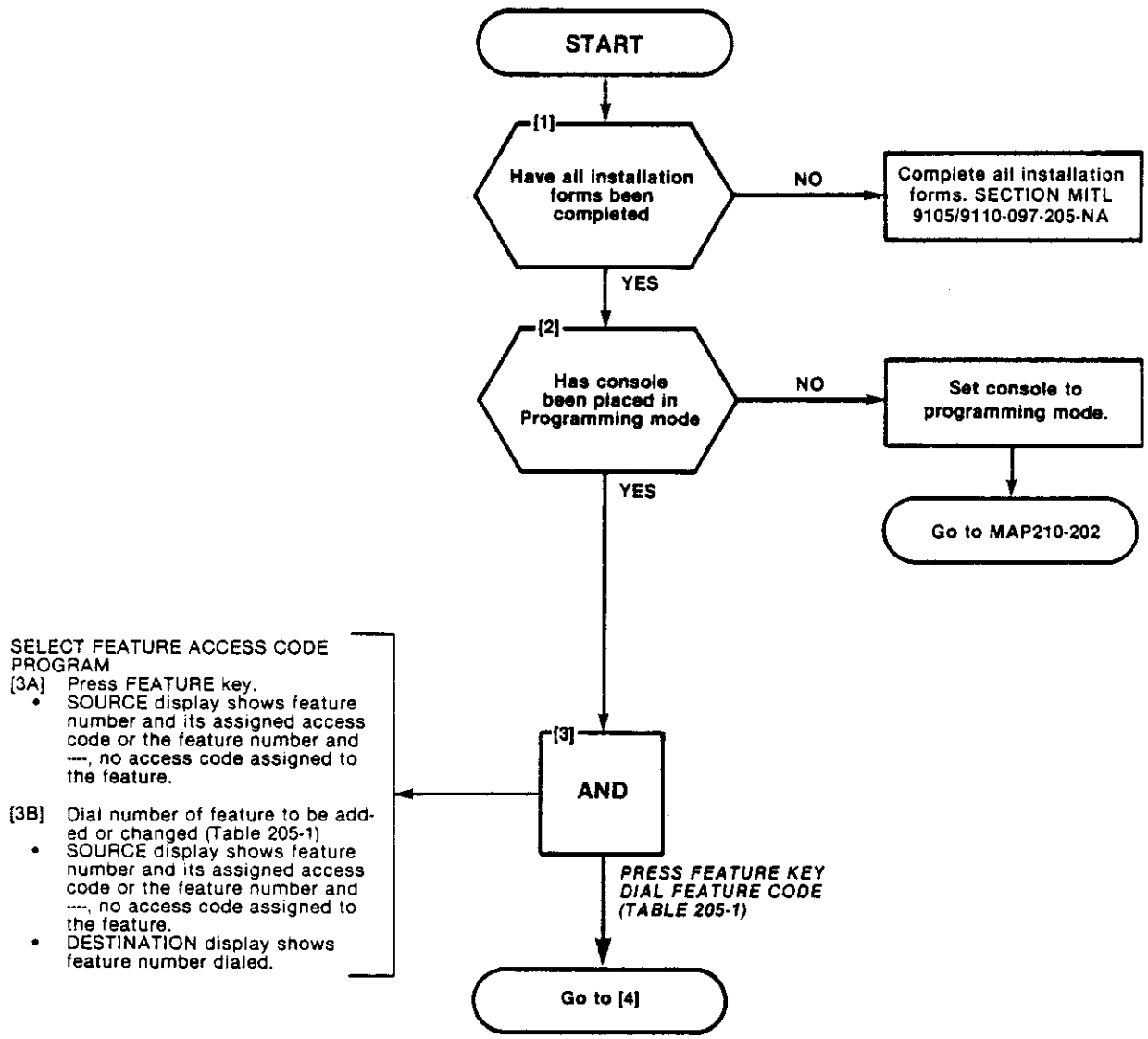


ASSIGN FEATURE ACCESS CODES
MAP210-205
Issue 2, February 1982
Sheet 1 of 3

**NOTES**

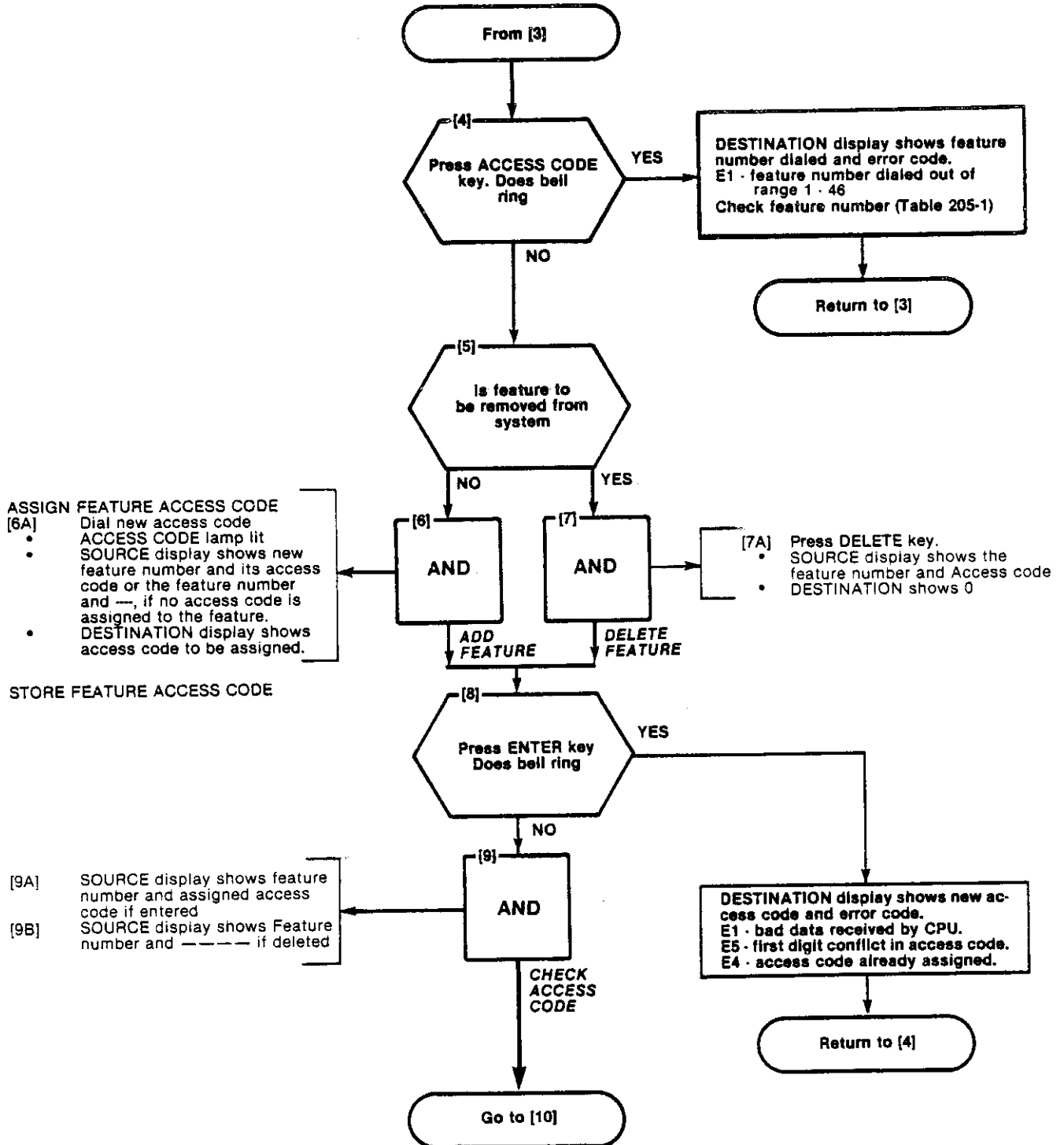
1. All entries are made from the console dial pad.
2. FEATURE lamp lit throughout procedure.
3. A display of EO indicates that an incorrect key was pressed, check procedure and press correct key.

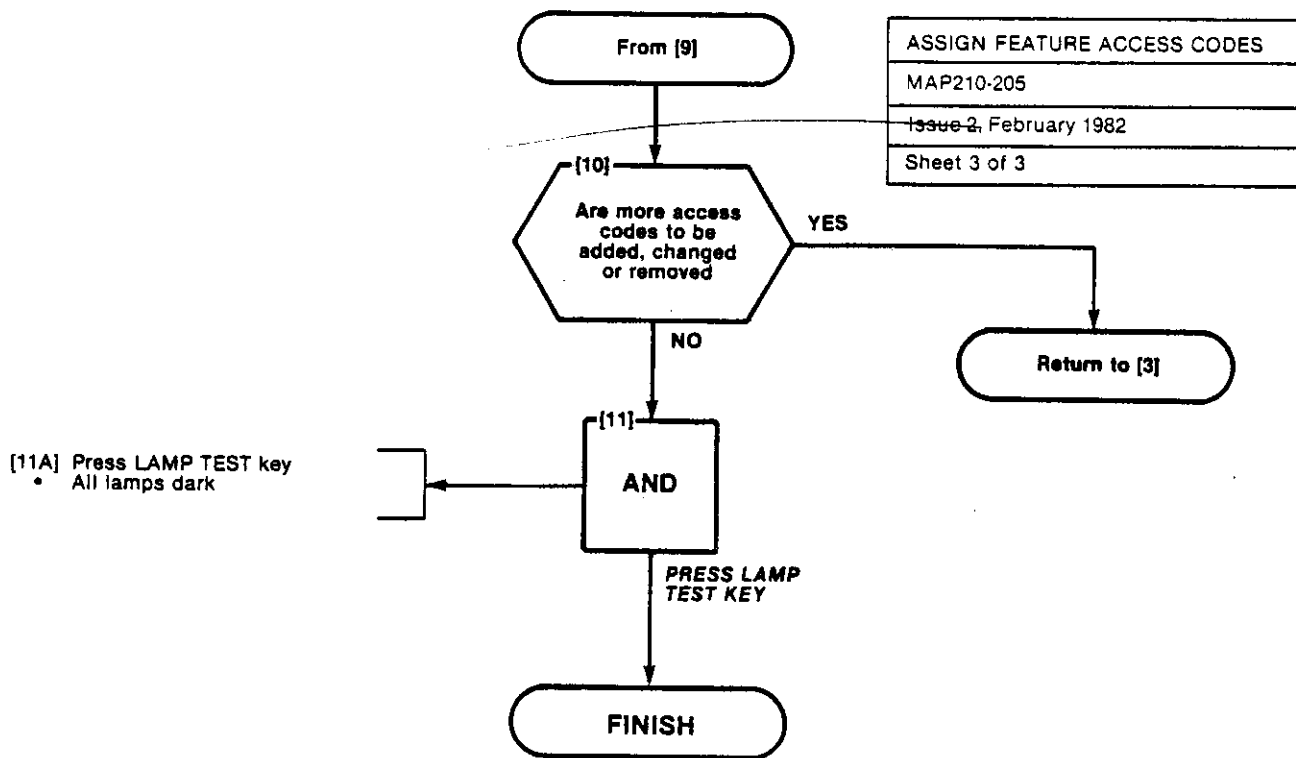
**SYNOPSIS**  
 Enter feature number. (1-46)  
 Assign or delete access code.  
 Press ENTER key.  
 Repeat for all required features.



SECTION MITL9105/9110-097-210-NA

ASSIGN FEATURE ACCESS CODES
MAP210-205
Issue 2, February 1982
Sheet 2 of 3





[11A] Press LAMP TEST key  
 • All lamps dark

TABLE 205-1  
 FEATURE ASSIGNMENTS

DESCRIPTION	FEATURE NUMBER		
ATTENDANT ACCESS	1	CALL RETRIEVE (REMOTE)	27
CALLBACK - DON'T ANSWER	2	ROOM STATUS UPDATE (MAID IN ROOM)	28
CALL FORWARD - BUSY	3	PROGRAMMING SECURITY CODE	29
CALL FORWARD - DON'T ANSWER	4	ALARM CALL (AUTOMATIC WAKEUP)	30
CALL FORWARD - FOLLOW ME	5	ACCOUNT CODE	31
CALL PARK	6	SPEED CALL	32
DIAL CALL PICKUP	7	ASSIGN ACCESS CODES TO FEATURES 33-42 FOR TRUNK TRUNK GROUP 1 IF NECESSARY	
DIRECTED CALL PICKUP	8		
MEET ME CONFERENCE	9	TRUNK GROUP 1 ACCESS CODE	33
PAGER 1	10	TRUNK GROUP 1 ACCESS CODE	34
PAGER 2	11	TRUNK GROUP 1 ACCESS CODE	35
HOLD PICKUP ACCESS	12	TRUNK GROUP 1 ACCESS CODE	36
PAGER 1 AND 2	13	TRUNK GROUP 1 ACCESS CODE	37
TAFAS - ALL	14	TRUNK GROUP 1 ACCESS CODE	38
TAFAS - 1	15	TRUNK GROUP 1 ACCESS CODE	39
TAFAS - 2	16	TRUNK GROUP 1 ACCESS CODE	40
TAFAS - 3	17	TRUNK GROUP 1 ACCESS CODE	41
ATTENDANT FUNCTION	18	TRUNK GROUP 1 ACCESS CODE	42
MAINTENANCE FUNCTION	19	CUSTOMER PROGRAMMING SECURITY CODE	43
DID ATTENDANT ACCESS CODE	20	A R S ACCESS CODE	44
DIRECT INWARD SYSTEM ACCESS	21	HANDS-FREE ACTIVATION	45
EXECUTIVE BUSY OVERRIDE (SINGLE DIGIT) ***	22	CALL FORWARD BUSY - DON'T ANSWER	46
CALLBACK - BUSY (SINGLE DIGIT) ***	23		
ROOM DO NOT DISTURB	24		
CALL HOLD	25		
CALL RETRIEVE (LOCAL)	26		

\*\*\* FIRST DIGIT CONFLICT ALLOWED WITH OTHER ACCESS CODES



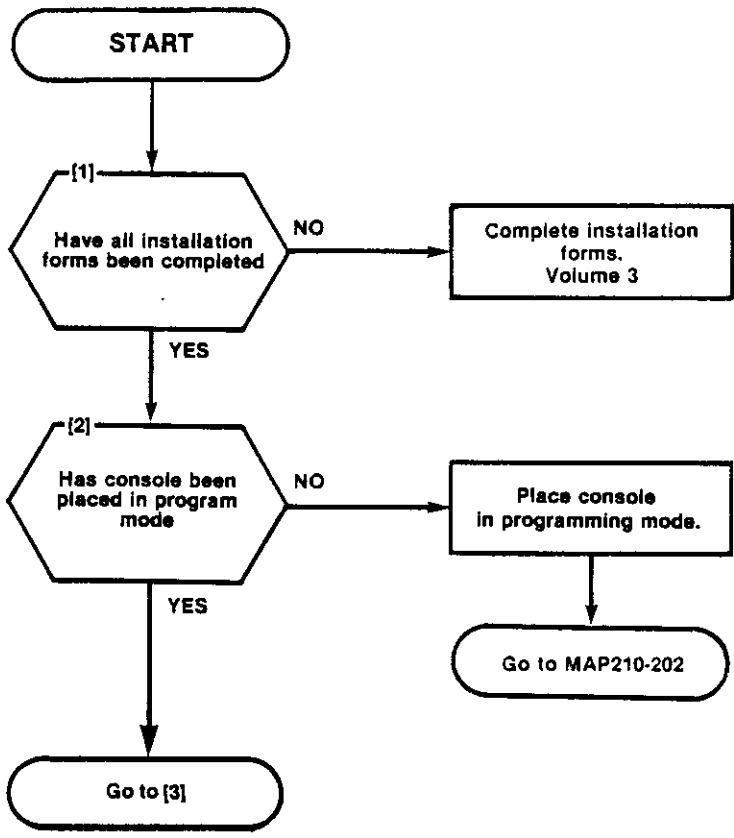
PROGRAM EXTENSIONS
MAP210-206
Issue 2, February 1982
Sheet 1 of 8

**NOTES**

(1) All entries are made from the console dial pad.  
 (2) EXTN lamp lit throughout procedure.  
 (3) A display of E0 indicates that an incorrect key has been pressed. Press the key specified in the MAP.

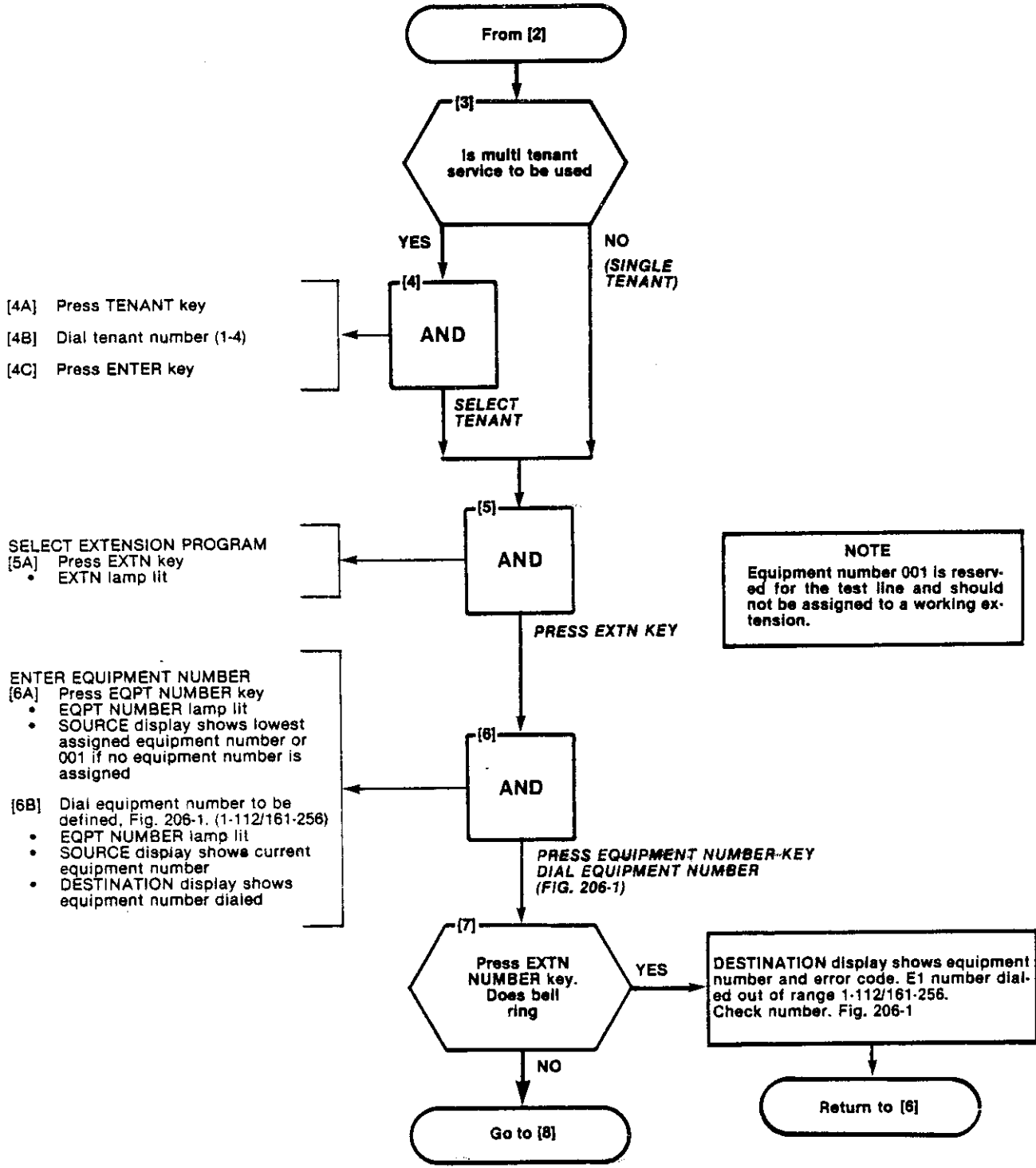
**SYNOPSIS**

Select required tenants (1-4) if tenanting required.  
 Enter EXTN programming.  
 Enter extension equipment number.  
 Enter extension number.  
 Enter COS number.  
 Enter toll allow/deny or COR 1, 2, 3.  
 Enter busy lamp position number.  
 Enter pickup group number.  
 Press ENTER key.



SECTION MITL9105/9110-097-210-NA

PROGRAM EXTENSIONS
MAP210-206
Issue 2, February 1982
Sheet 2 of 8





PROGRAM EXTENSIONS
MAP210-206
Issue 2, February 1982
Sheet 3 of 8

HARDWARE POSITION NUMBER	PLUG 7						PLUG 9						PLUG 11										
	161	169	177	185	193	201	209	217	225	233	241	249							EXTENSION UNIT NO.	1			
	162	170	178	186	194	202	210	218	226	234	242	250							TRUNK UNIT NO. (4 TRUNK)	2	1	1	
	163	171	179	187	195	203	211	219	227	235	243	251							TRUNK UNIT NO. (2 TRUNK)	3			
	164	172	180	188	196	204	212	220	228	236	244	252								4	2		
	165	173	181	189	197	205	213	221	229	237	245	253								5			
	166	174	182	190	198	206	214	222	230	238	246	254								6	3	2	
	167	175	183	191	199	207	215	223	231	239	247	255								7			
	168	176	184	192	200	208	216	224	232	240	248	256								8	4		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	CARD POSITION
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	SLOT NUMBER
	PLUG 8						PLUG 10						PLUG 12										

SHELF 2 (SX-200 ONLY)

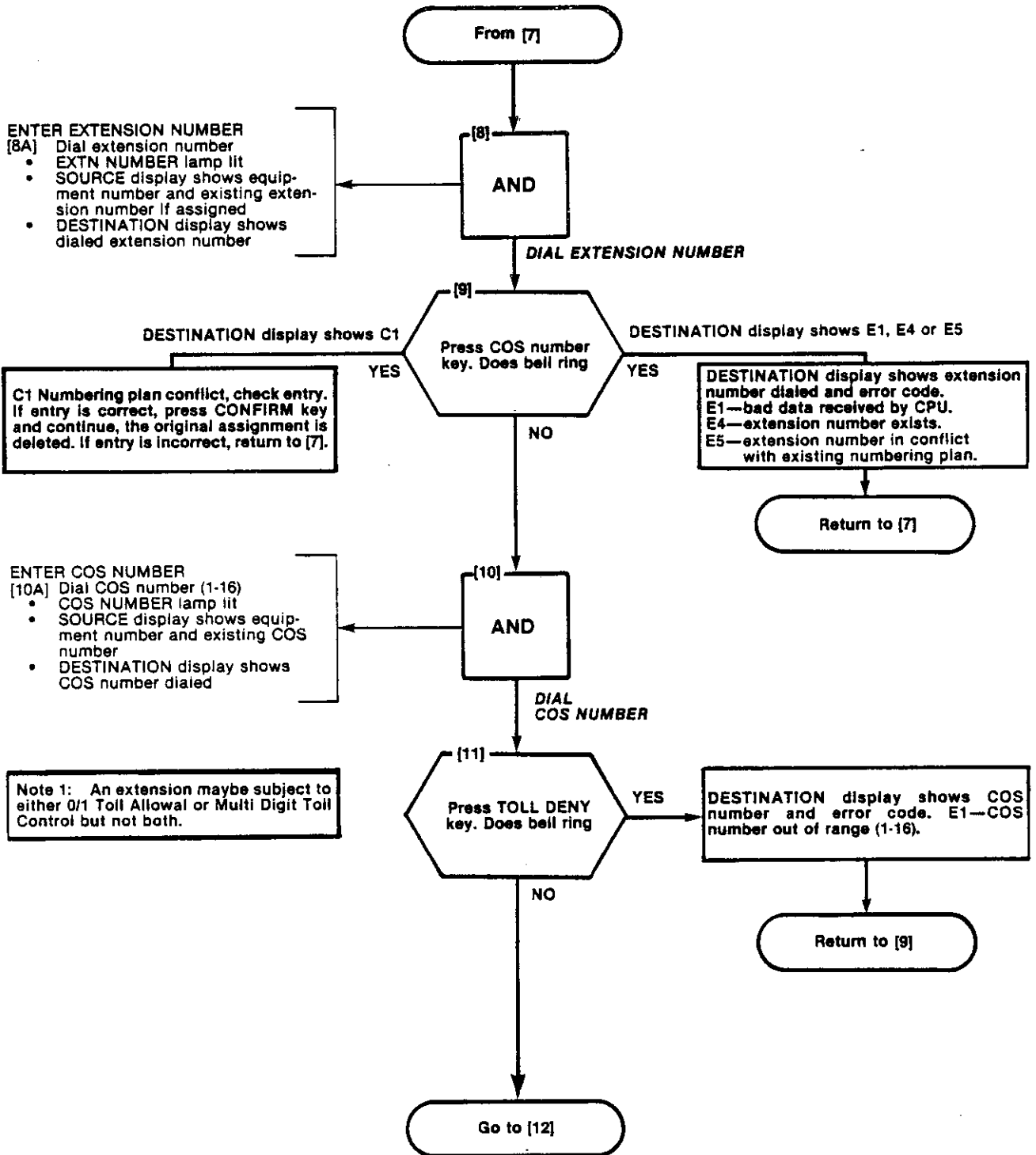
HARDWARE POSITION NUMBER	PLUG 1						PLUG 3						PLUG 5												
	001	009	017	025	033	041	049	057	065	073	081	089	097	105							EXTENSION UNIT NO.	1			
	002	010	018	026	034	042	050	058	066	074	082	090	098	106							TRUNK UNIT NO. (4 TRUNK)	2	1	1	
	003	011	019	027	035	043	051	059	067	075	083	091	099	107							RESERVED	3			
	004	012	020	028	036	044	052	060	068	076	084	092	100	108							FOR	4	2		
	005	013	021	029	037	045	053	061	069	077	085	093	101	109							COMMON	5			
	006	014	022	030	038	046	054	062	070	078	086	094	102	110							CONTROLS	6	3	2	
	007	015	023	031	039	047	055	063	071	079	087	095	103	111								7			
	008	016	024	032	040	048	056	064	072	080	088	096	104	112								8	4		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	CARD POSITION		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	SLOT NUMBER		
	PLUG 2						PLUG 4						PLUG 6												

SHELF 1

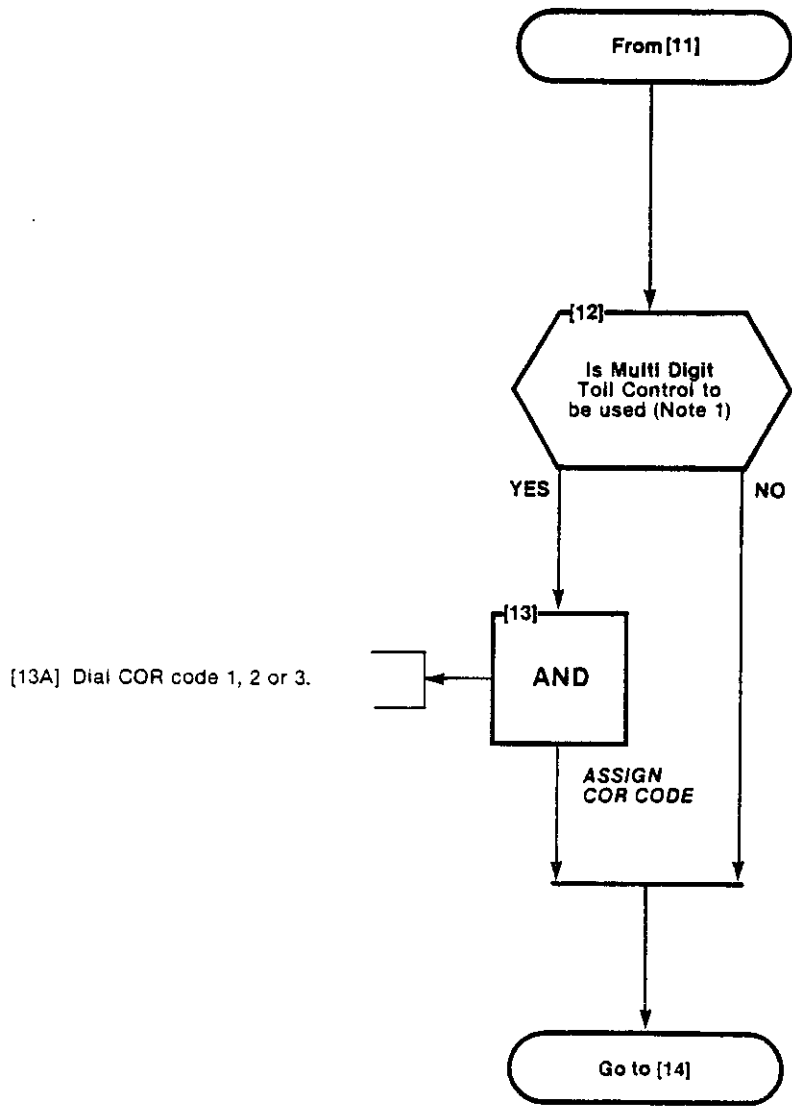
- NOTES: 1. EQUIPMENT POSITION 001 IS RESERVED FOR THE TEST LINE AND MUST THEREFORE BE EQUIPPED WITH A LINE CARD.  
 2. TRUNK EQUIPMENT NUMBER IS SAME AS INDIVIDUAL TRUNK ACCESS CODE.

Fig. 206-1 Hardware/Equipment Numbering

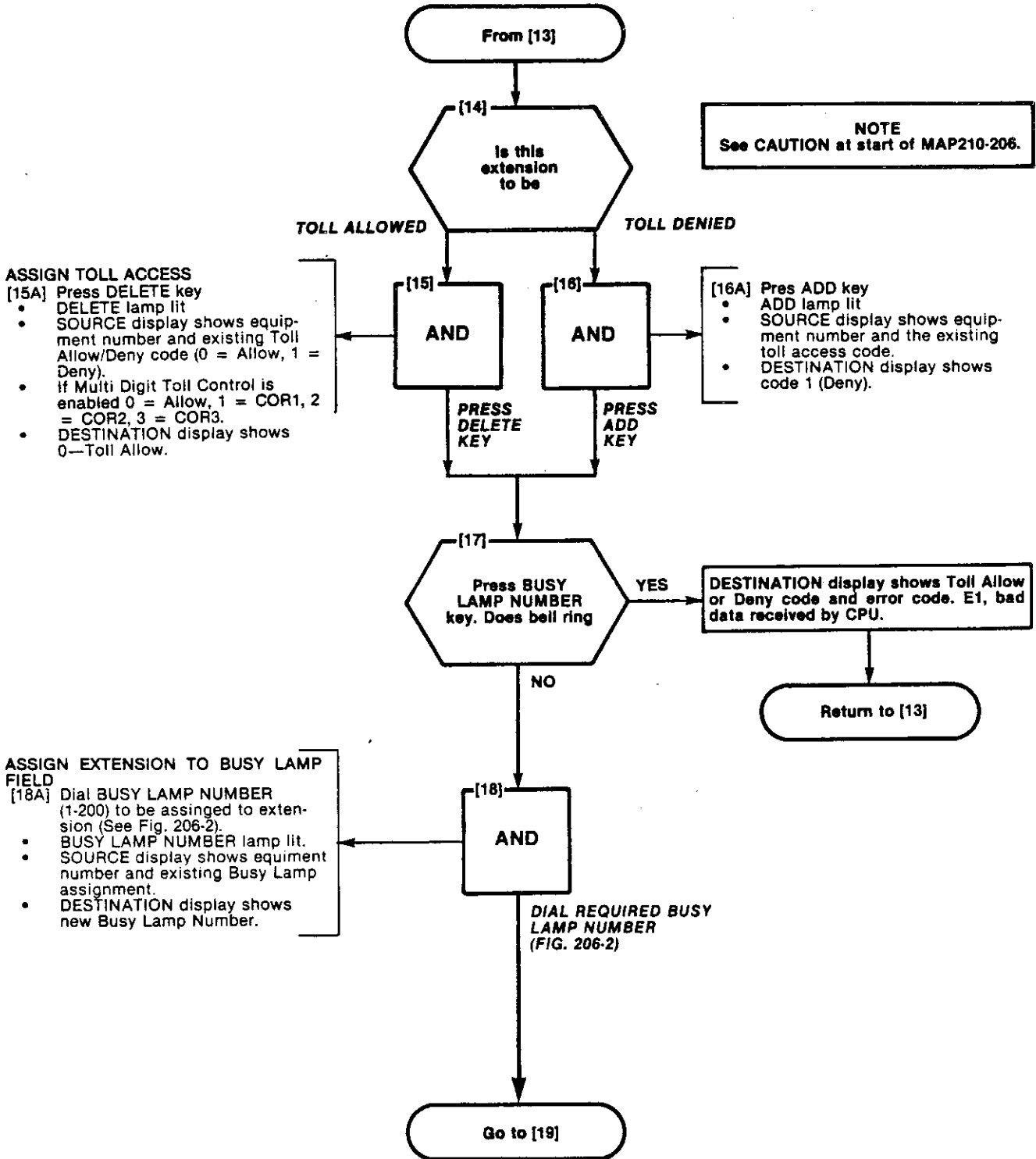
PROGRAM EXTENSIONS
MAP210-206
Issue 2, February 1982
Sheet 4 of 8



PROGRAM EXTENSIONS
MAP210-206
Issue 2, February 1982
Sheet 5 of 8



PROGRAM EXTENSIONS
MAP210-206
Issue 2, February 1982
Sheet 6 of 8



PROGRAM EXTENSIONS
MAP210-206
Issue 2, February 1982
Sheet 7 of 8

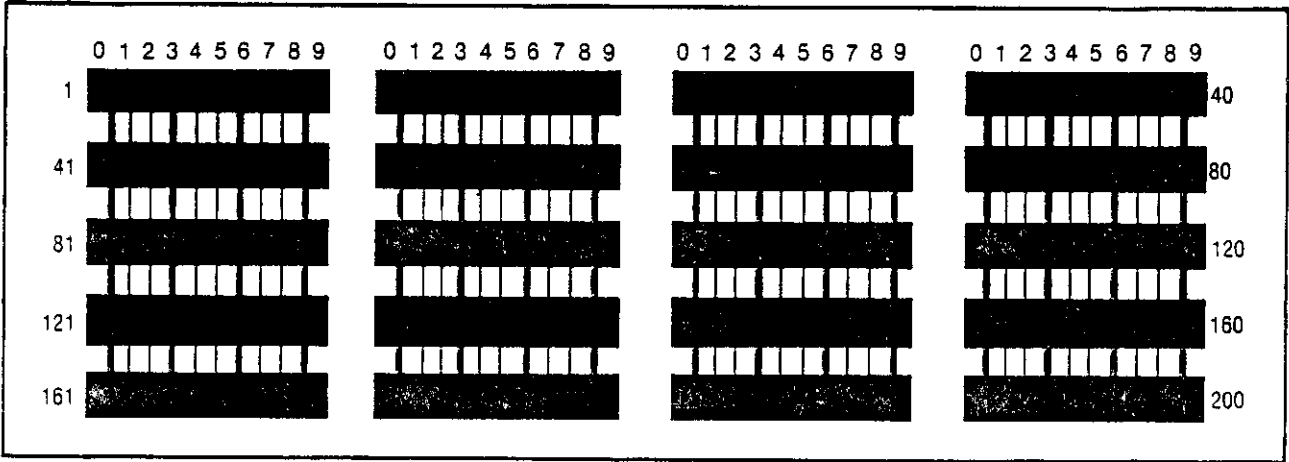
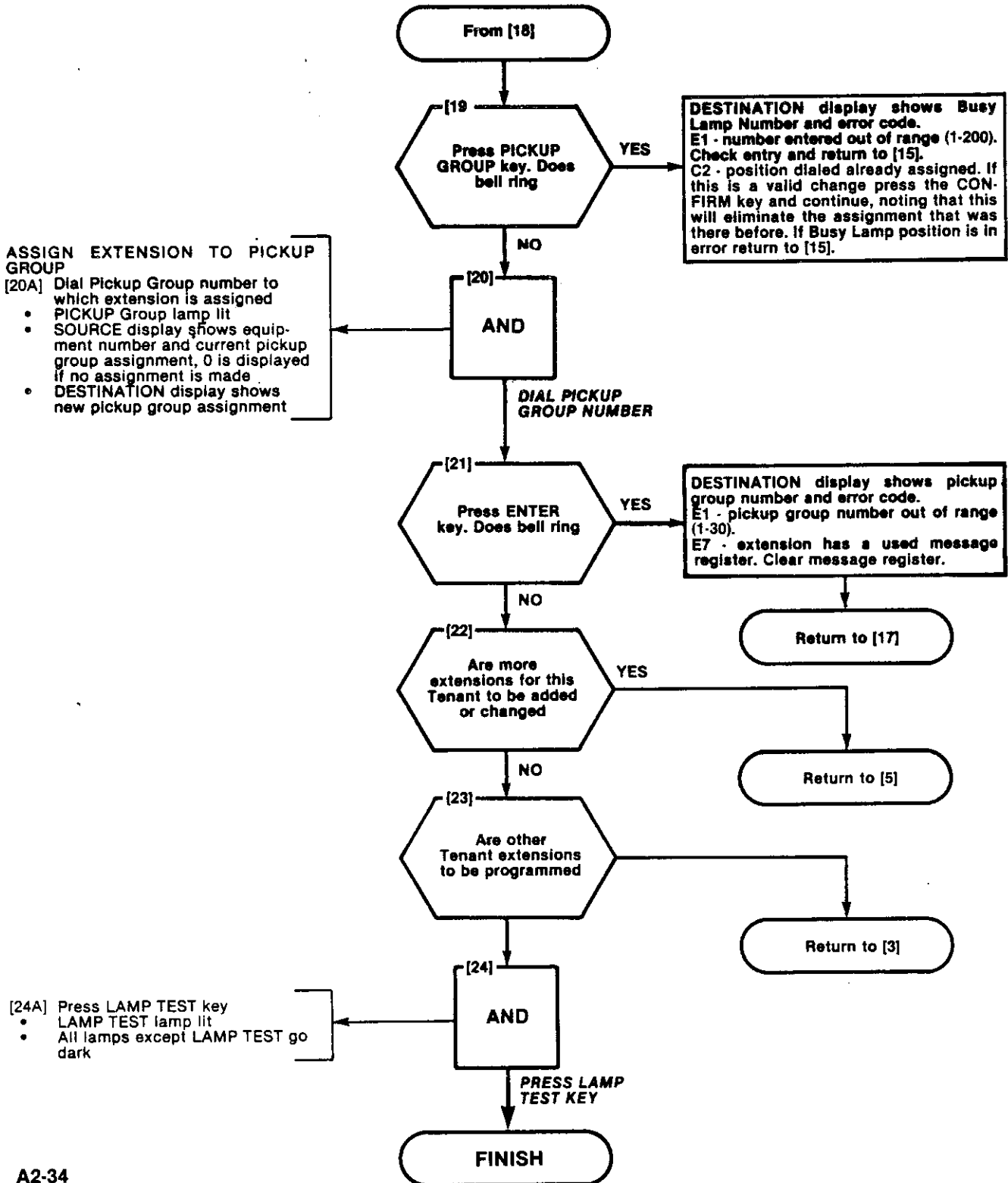


Fig. 206-2 Busy Lamp Position Numbering

3208

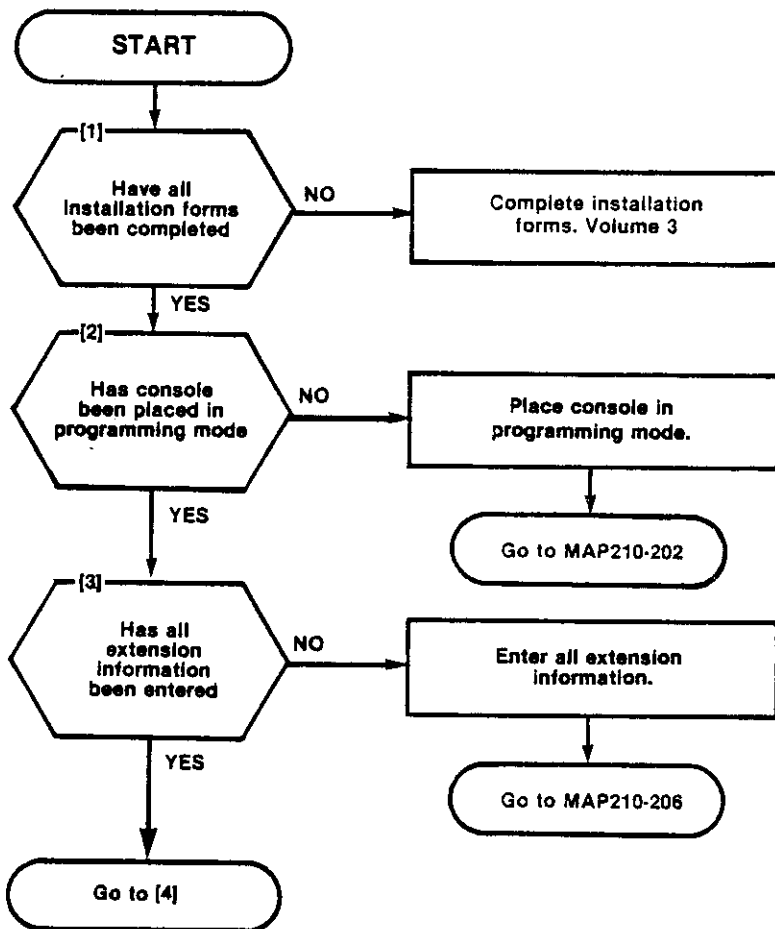
PROGRAM EXTENSIONS
MAP210-206
Issue 2, February 1982
Sheet 8 of 8



PROGRAM EXTENSION HUNT GROUPS
MAP210-207
Issue 2, February 1982
Sheet 1 of 6

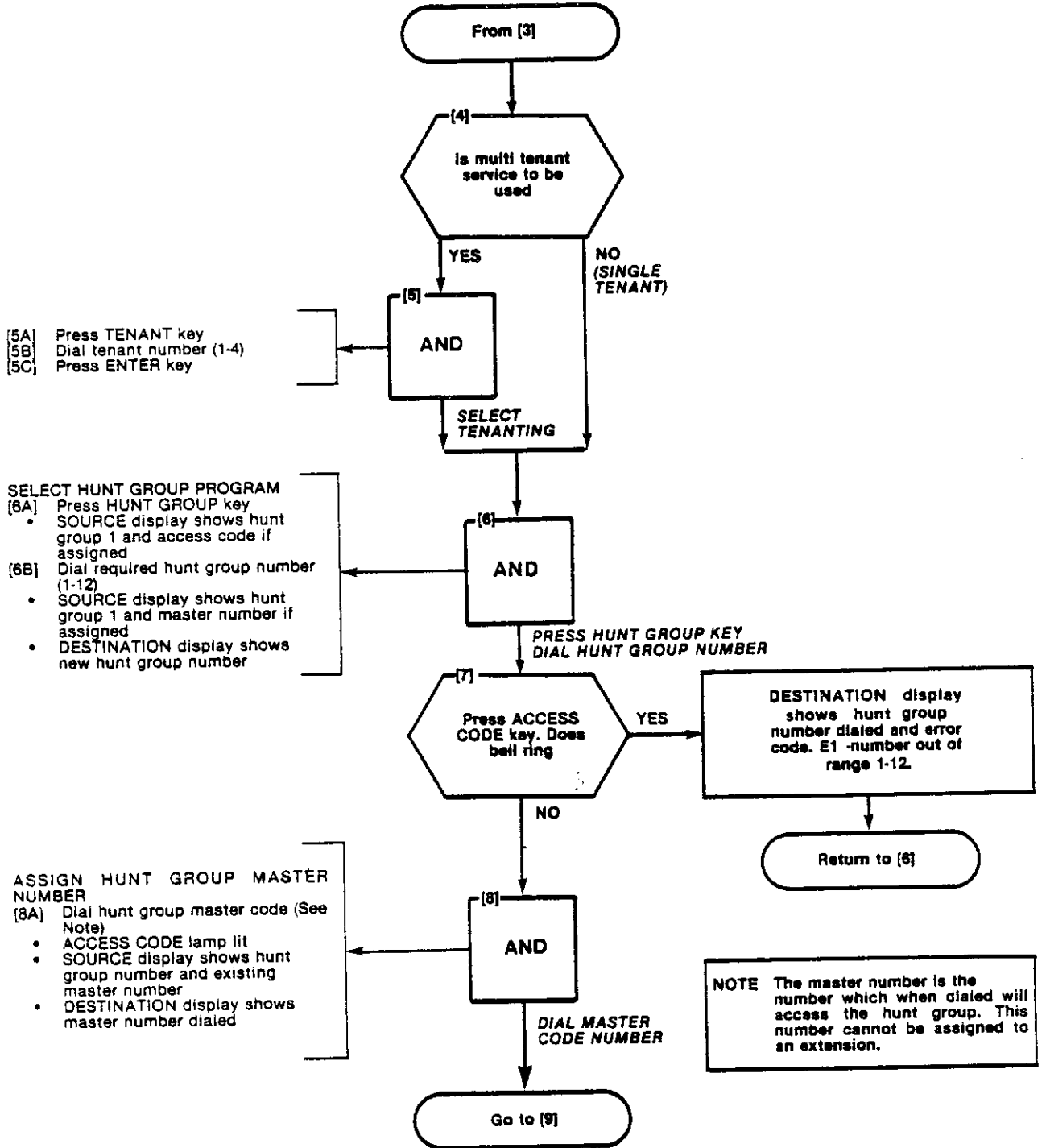
- NOTES**
- (1) All entries are made from the console dial pad.
  - (2) HUNT GROUP lamp remains lit throughout procedure.
  - (3) A display of E0 indicates that an incorrect key has been pressed. Press the key specified in the MAP.
  - (4) If any equipment number is to be changed within a hunt group, the hunt group must be re-entered.

**SYNOPSIS**  
 Select required tenant.  
 Enter hunt group number (1-12).  
 Enter master hunt number.  
 Enter all required equipment numbers.  
 Determine type of hunting.  
 Press ENTER key.



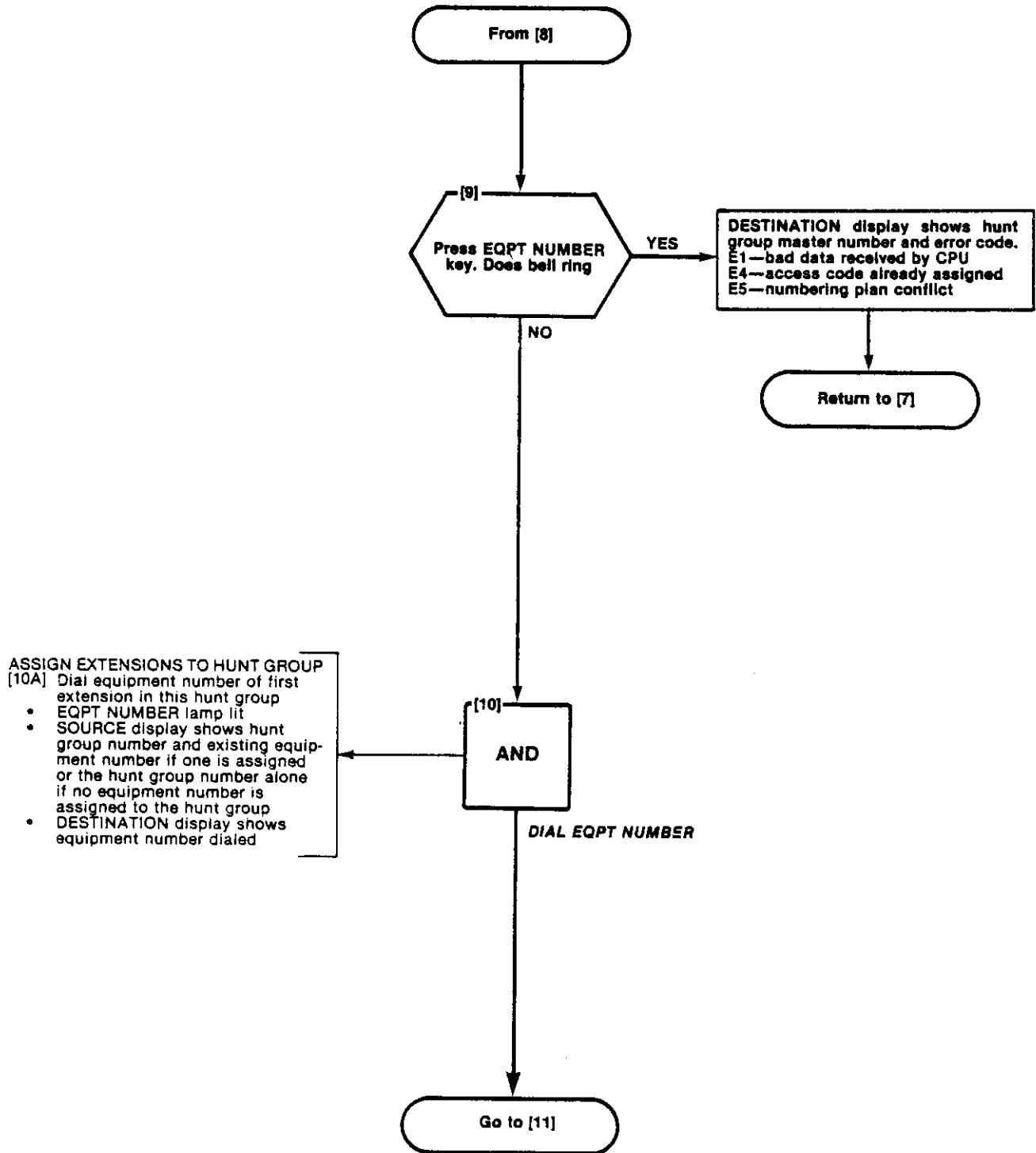
SECTION MITL9105/9110-097-210-NA

PROGRAM EXTENSION HUNT GROUPS
MAP210-207
Issue 2, February 1982
Sheet 2 of 6

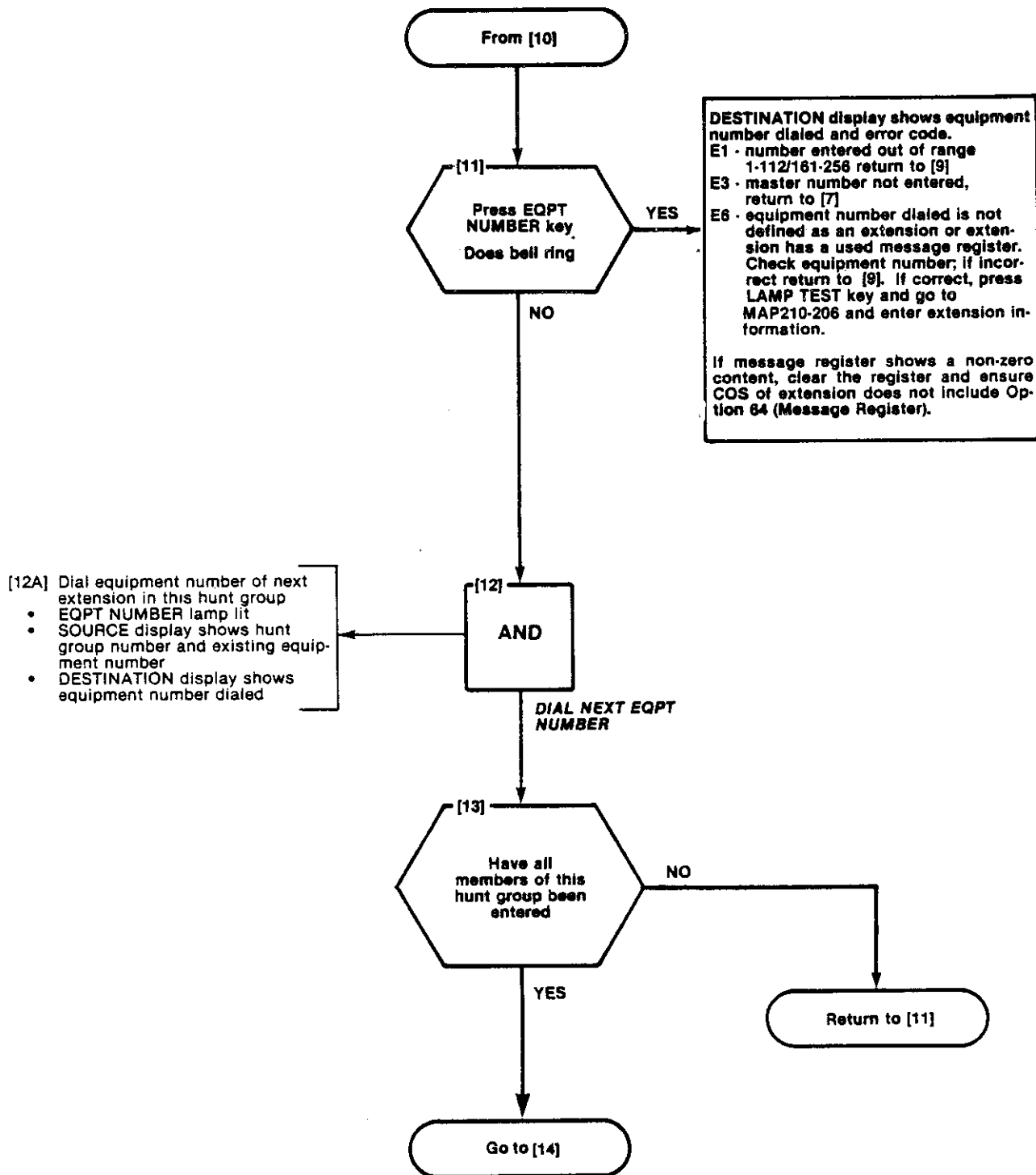




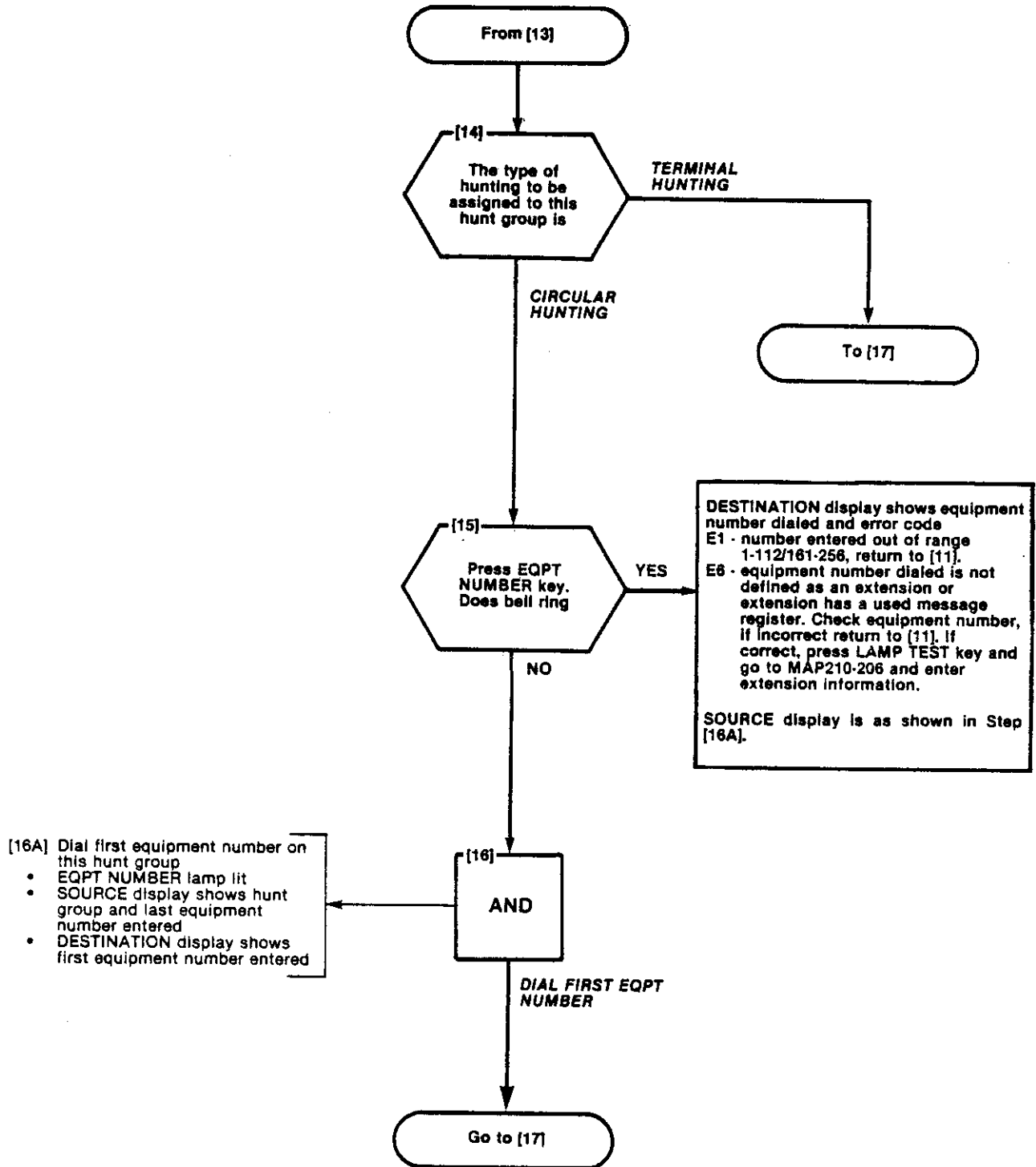
PROGRAM EXTENSION HUNT GROUPS
MAP210-207
Issue 2, February 1982
Sheet 3 of 6



PROGRAM EXTENSION HUNT GROUPS
MAP210-207
Issue 2, February 1982
Sheet 4 of 6

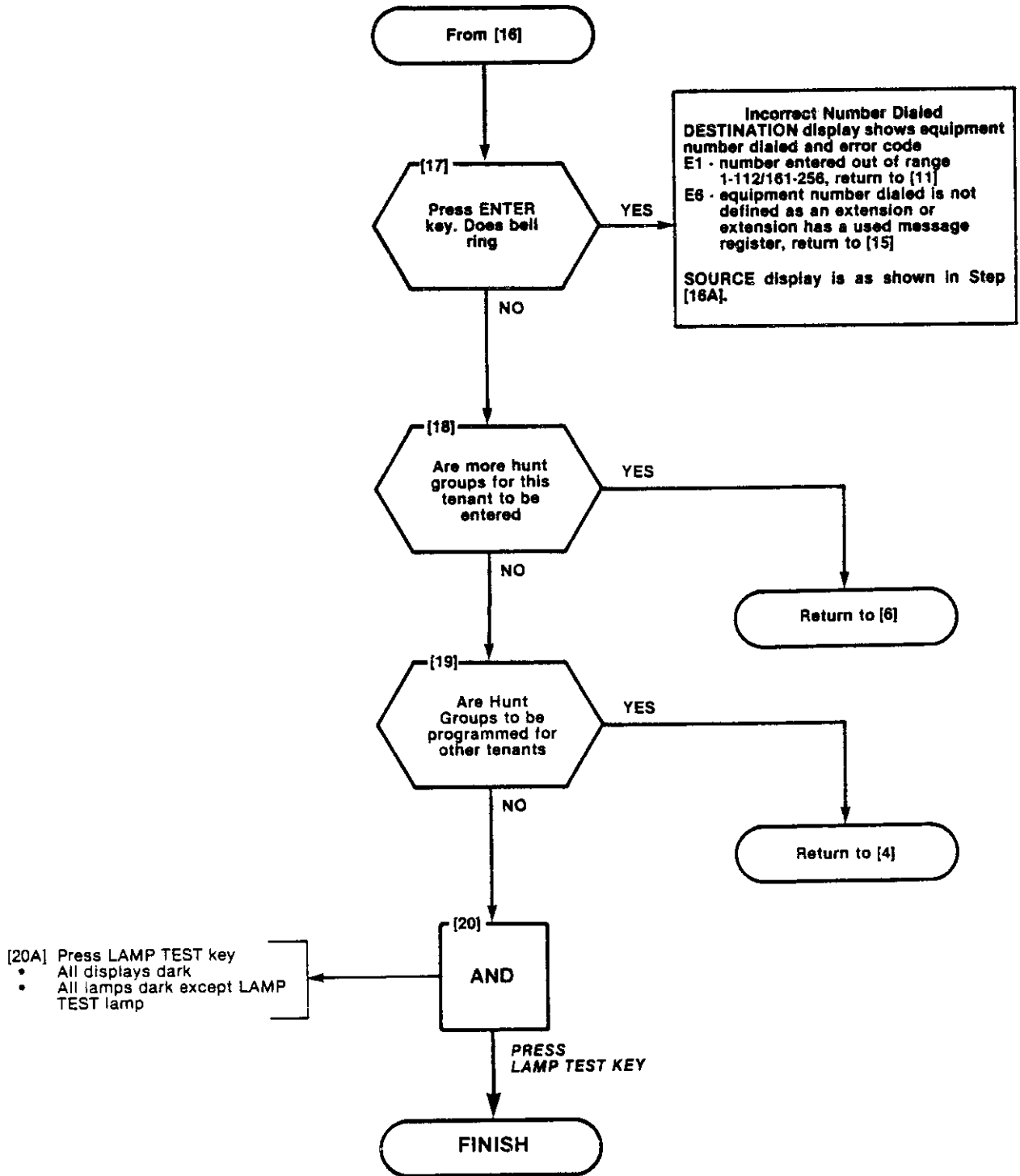


PROGRAM EXTENSION HUNT GROUPS
MAP210-207
Issue 2, February 1982
Sheet 5 of 6



SECTION MITL9105/9110-097-210-NA

PROGRAM EXTENSION HUNT GROUPS
MAP210-207
Issue 2, February 1982
Sheet 6 of 6



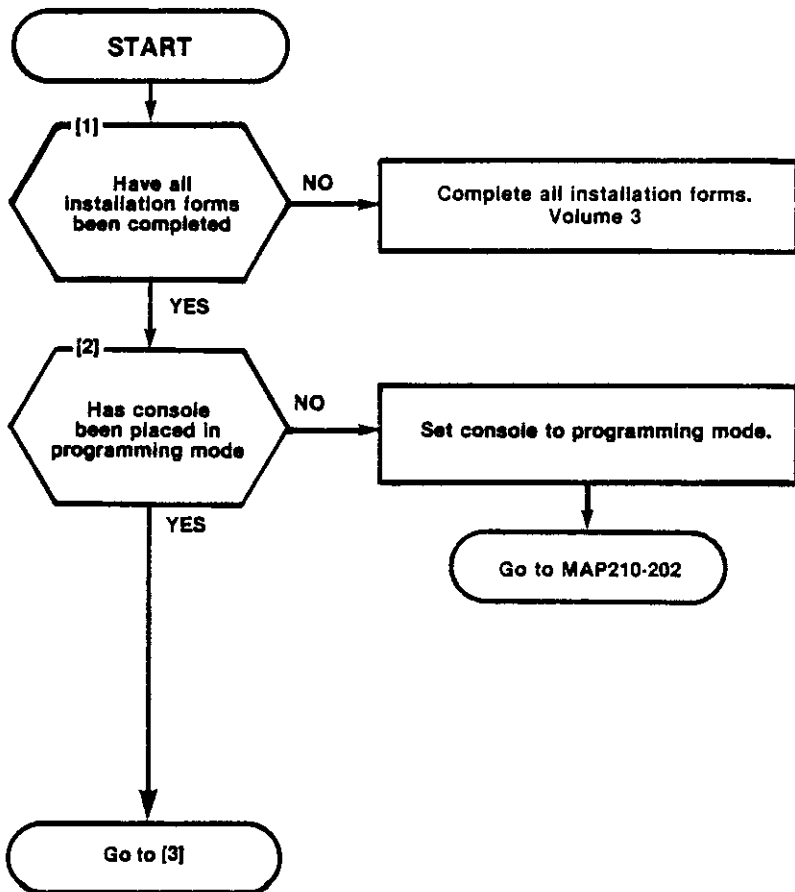
PROGRAM NON DIAL-IN TRUNKS
MAP210-208
Issue 2, February 1982
Issue 1 of 10

**NOTES**

- (1) All entries are made from the console dial pad
- (2) TRUNK lamp remains lit throughout procedure
- (3) A display of E0 indicates that an incorrect key was pressed. Press the key specified in MAP and proceed.

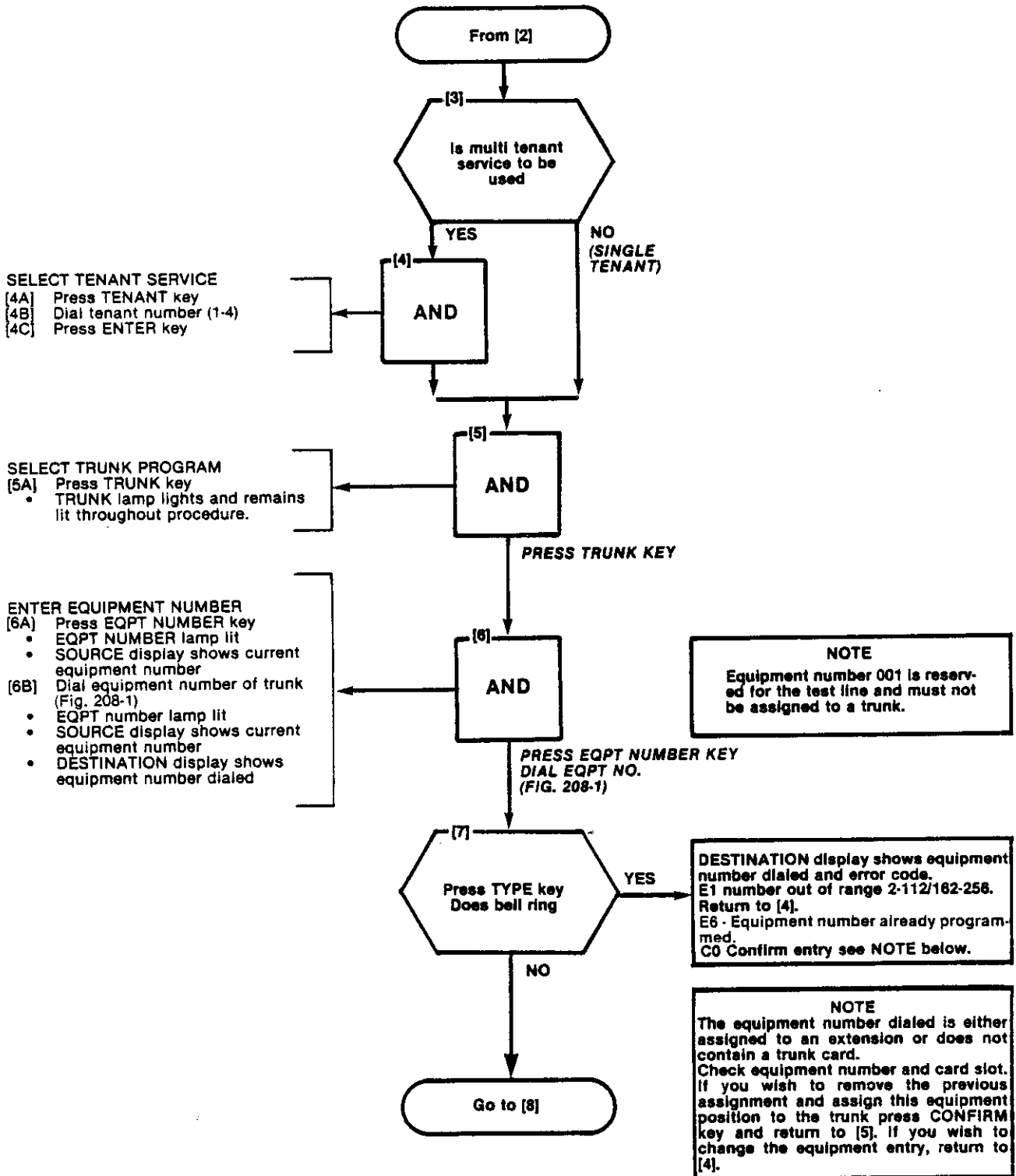
**SYNOPSIS**

Select tenant service if required  
 Enter equipment number (10-112/162-256)  
 Enter Trunk type number (1 or 5, 11 or 51)  
 Enter LDN assignment  
 Enter DAY assignment  
 Enter NIGHT 1 assignment  
 Enter NIGHT 2 assignment  
 Enter Busy Lamp Position number  
 Press ENTER key



SECTION MITL9105/9110-097-210-NA

PROGRAM NON DIAL-IN TRUNKS
MAP210-208
Issue 2, February 1982
Issue 2 of 10



PROGRAM NON DIAL-IN TRUNKS
MAP210-208
Issue 2, February 1982
Issue 3 of 10

HARDWARE POSITION NUMBER	PLUG 7						PLUG 9						PLUG 11						EXTENSION UNIT NO.	TRUNK UNIT NO. (4 TRUNK)	TRUNK UNIT NO. (2 TRUNK)		
	161	169	177	185	193	201	209	217	225	233	241	249										1	
162	170	178	186	194	202	210	218	226	234	242	250							2	1	1			
163	171	179	187	195	203	211	219	227	235	243	251							3					
164	172	180	188	196	204	212	220	228	236	244	252							4	2				
165	173	181	189	197	205	213	221	229	237	245	253							5					
166	174	182	190	198	206	214	222	230	238	246	254							6	3	2			
167	175	183	191	199	207	215	223	231	239	247	255							7					
168	176	184	192	200	208	216	224	232	240	248	256							8	4				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	CARD POSITION
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	SLOT NUMBER
	PLUG 8						PLUG 10						PLUG 12										

SHELF 2 (SX-200 ONLY)

HARDWARE POSITION NUMBER	PLUG 1						PLUG 3						PLUG 5						EXTENSION UNIT NO.	TRUNK UNIT NO. (4 TRUNK)	TRUNK UNIT NO. (2 TRUNK)		
	001	009	017	025	033	041	049	057	065	073	081	089	097	105								1	
002	010	018	026	034	042	050	058	066	074	082	090	098	106					2	1	1			
003	011	019	027	035	043	051	059	067	075	083	091	099	107					RESERVED	3				
004	012	020	028	036	044	052	060	068	076	084	092	100	108					FOR	4	2			
005	013	021	029	037	045	053	061	069	077	085	093	101	109					COMMON	5				
006	014	022	030	038	046	054	062	070	078	086	094	102	110					CONTROLS	6	3	2		
007	015	023	031	039	047	055	063	071	079	087	095	103	111						7				
008	016	024	032	040	048	056	064	072	080	088	096	104	112						8	4			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	CARD POSITION
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	SLOT NUMBER
	PLUG 2						PLUG 4						PLUG 6										

SHELF 1

- NOTES: 1. EQUIPMENT POSITION 001 IS RESERVED FOR THE TEST LINE AND MUST THEREFORE BE EQUIPPED WITH A LINE CARD.  
 2. TRUNK EQUIPMENT NUMBER IS SAME AS INDIVIDUAL TRUNK ACCESS CODE.

Fig. 208-1 Hardware/Equipment Numbering

SECTION MITL9105/9110-097-210-NA

PROGRAM NON DIAL-IN TRUNKS
MAP210-208
Issue 2, February 1982
Issue 4 of 10

TABLE 008-1	
Code	Type
1	Both way CO Trunk VNL
5	Non Dial-in Tie Trunk VNL
11	Both way CO Trunk Non VNL
51	Non Dial-in Tie Trunk Non VNL

**SELECT TRUNK TYPE**  
 [8A] Dial trunk type code, Table 208-1

- TYPE lamp lit
- SOURCE display shows equipment number of trunk and its current type
- DESTINATION display shows new trunk type entered

From [7]

[8]  
 AND

DIAL TRUNK TYPE  
 TABLE 208-1

[9]  
 Press LDN number key. Does bell ring

YES

DESTINATION display shows trunk type code dialed and error code.  
 E1 - out of range code not 1, 5, 11, or 51

Return to [7]

NO

**ASSIGN TRUNK TO LDN KEY**  
 [10A] Dial LDN key number (1-4) to be assigned to trunk

- LDN lamp lit
- SOURCE display shows equipment number and current LDN key assignment
- DESTINATION display shows new LDN assignment

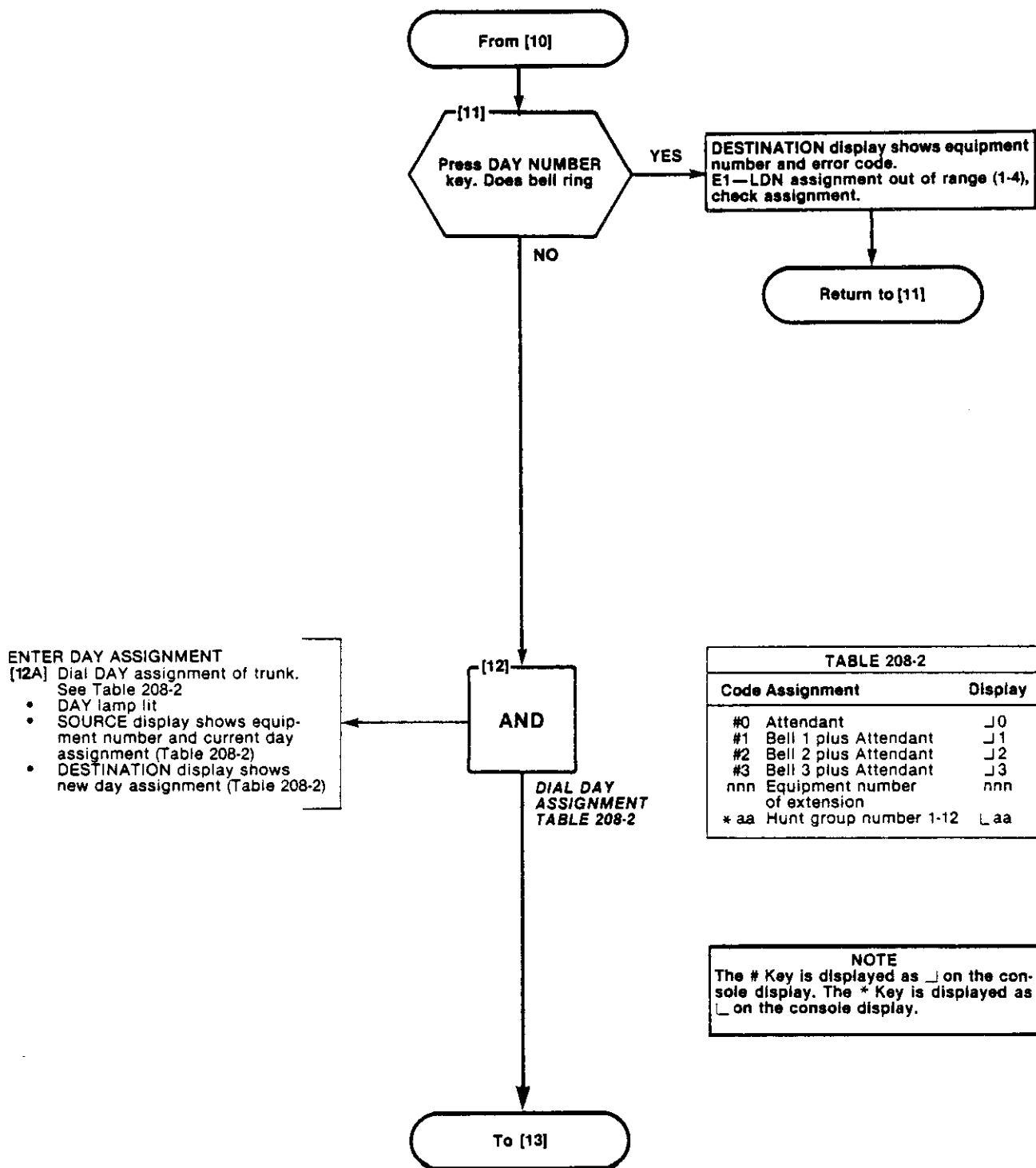
[10]  
 AND

DIAL LDN ASSIGNMENT

Go to [11]



PROGRAM NON DIAL-IN TRUNKS
MAP210-208
Issue 2, February 1982
Issue 5 of 10



**ENTER DAY ASSIGNMENT**  
 [12A] Dial DAY assignment of trunk.  
 See Table 208-2

- DAY lamp lit
- SOURCE display shows equipment number and current day assignment (Table 208-2)
- DESTINATION display shows new day assignment (Table 208-2)

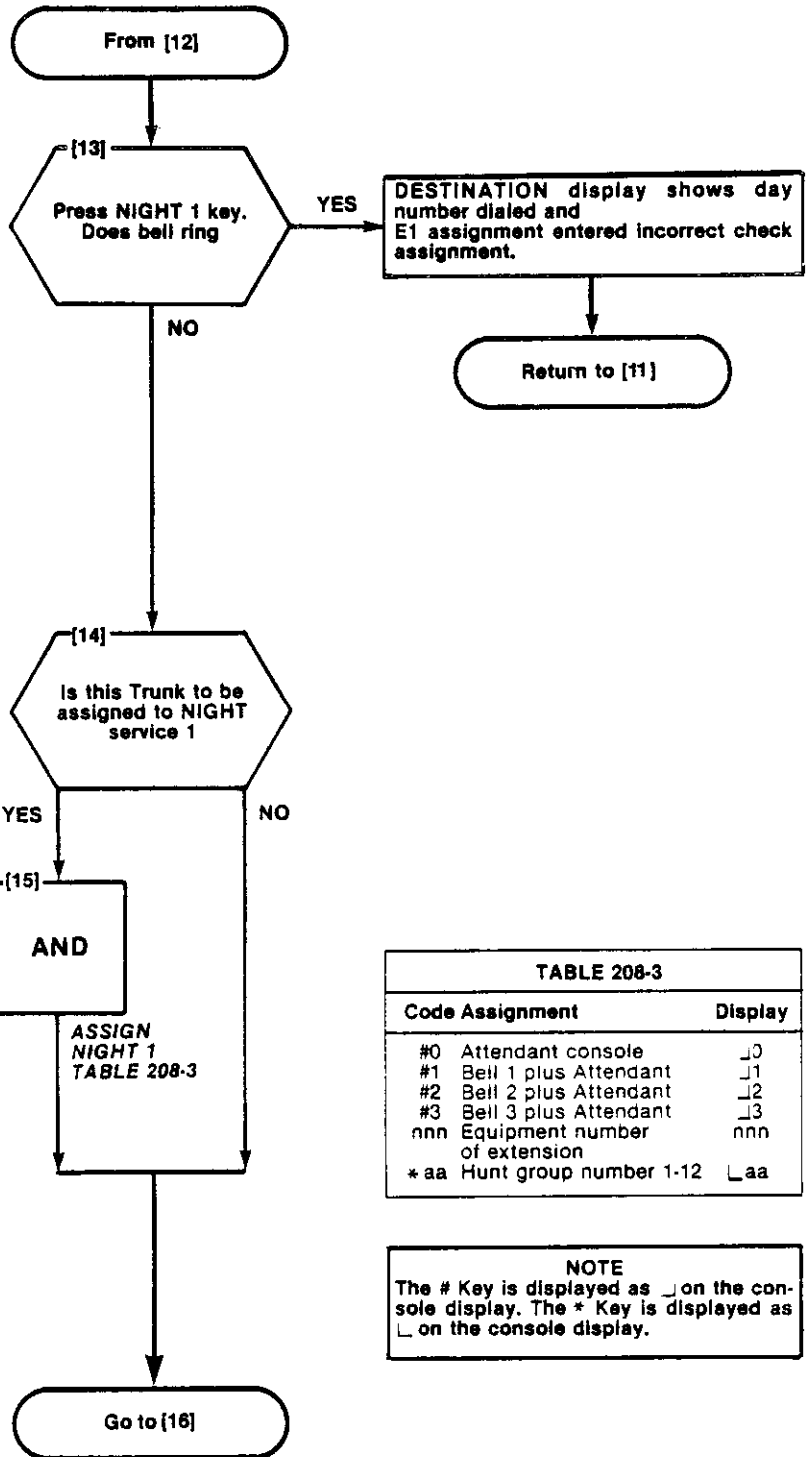
**TABLE 208-2**

Code Assignment	Display
#0 Attendant	J0
#1 Bell 1 plus Attendant	J1
#2 Bell 2 plus Attendant	J2
#3 Bell 3 plus Attendant	J3
nnn Equipment number of extension	nnn
* aa Hunt group number 1-12	L aa

**NOTE**  
 The # Key is displayed as J on the console display. The \* Key is displayed as L on the console display.

SECTION MITL9105/9110-097-210-NA

PROGRAM NON DIAL-IN TRUNKS
MAP210-208
Issue 2, February 1982
Sheet 6 of 10



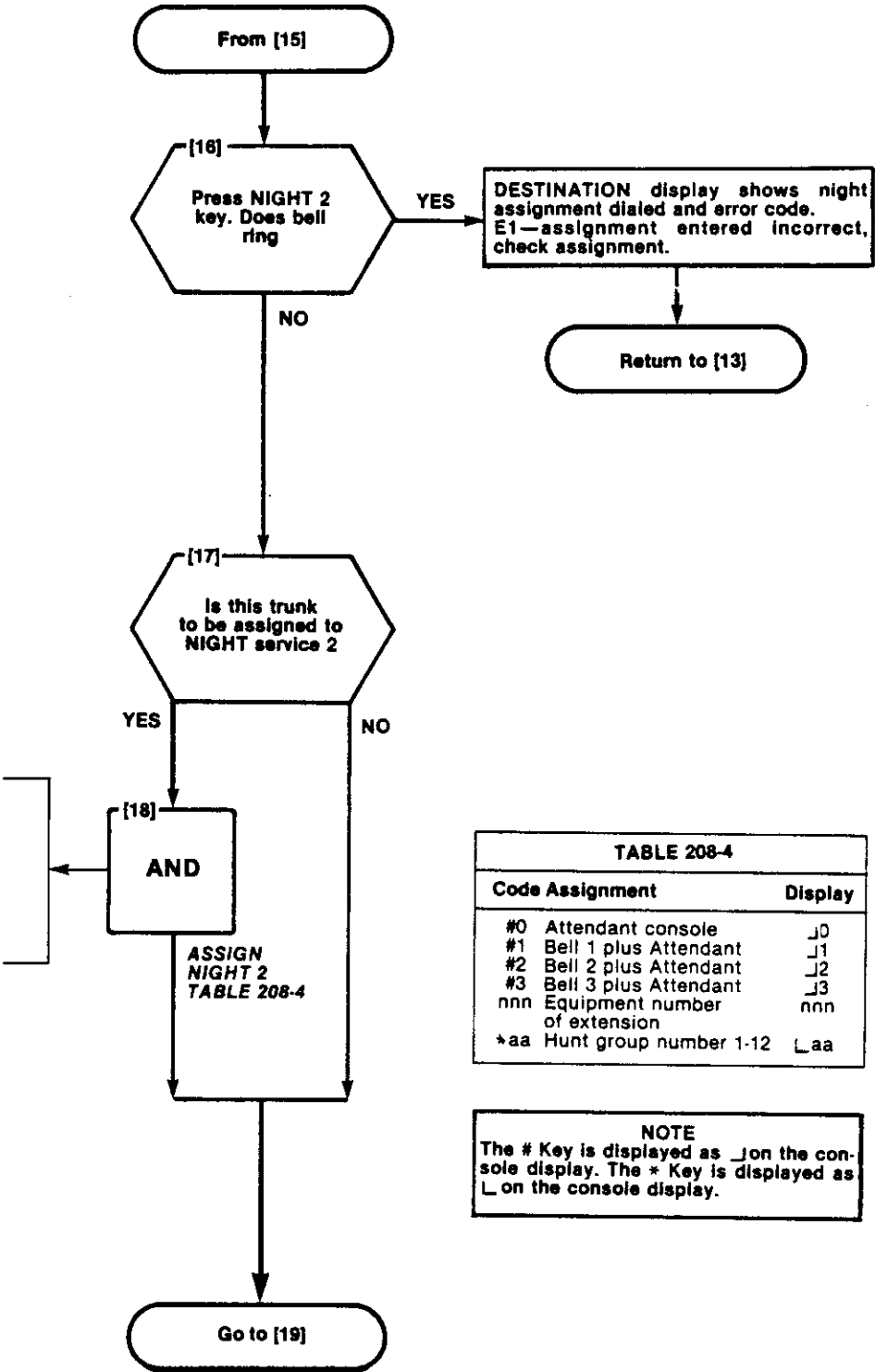
**ENTER NIGHT 1 ASSIGNMENT**  
 [15A] Dial code of equipment to which trunk is to be connected (Table 208-3)

- NIGHT 1 lamp lit
- SOURCE display shows current assignment of trunk
- DESTINATION display shows code dialed

Code Assignment	Display
#0 Attendant console	┘0
#1 Bell 1 plus Attendant	┘1
#2 Bell 2 plus Attendant	┘2
#3 Bell 3 plus Attendant	┘3
nnn Equipment number of extension	nnn
* aa Hunt group number 1-12	┘aa

**NOTE**  
 The # Key is displayed as ┘ on the console display. The \* Key is displayed as ┘ on the console display.

PROGRAM NON DIAL-IN TRUNKS
MAP210-208
Issue 2, February 1982
Sheet 7 of 10



**ENTER NIGHT 2 ASSIGNMENT**  
 [18A] Dial code of equipment to which trunk is to be connected. Table 208-4

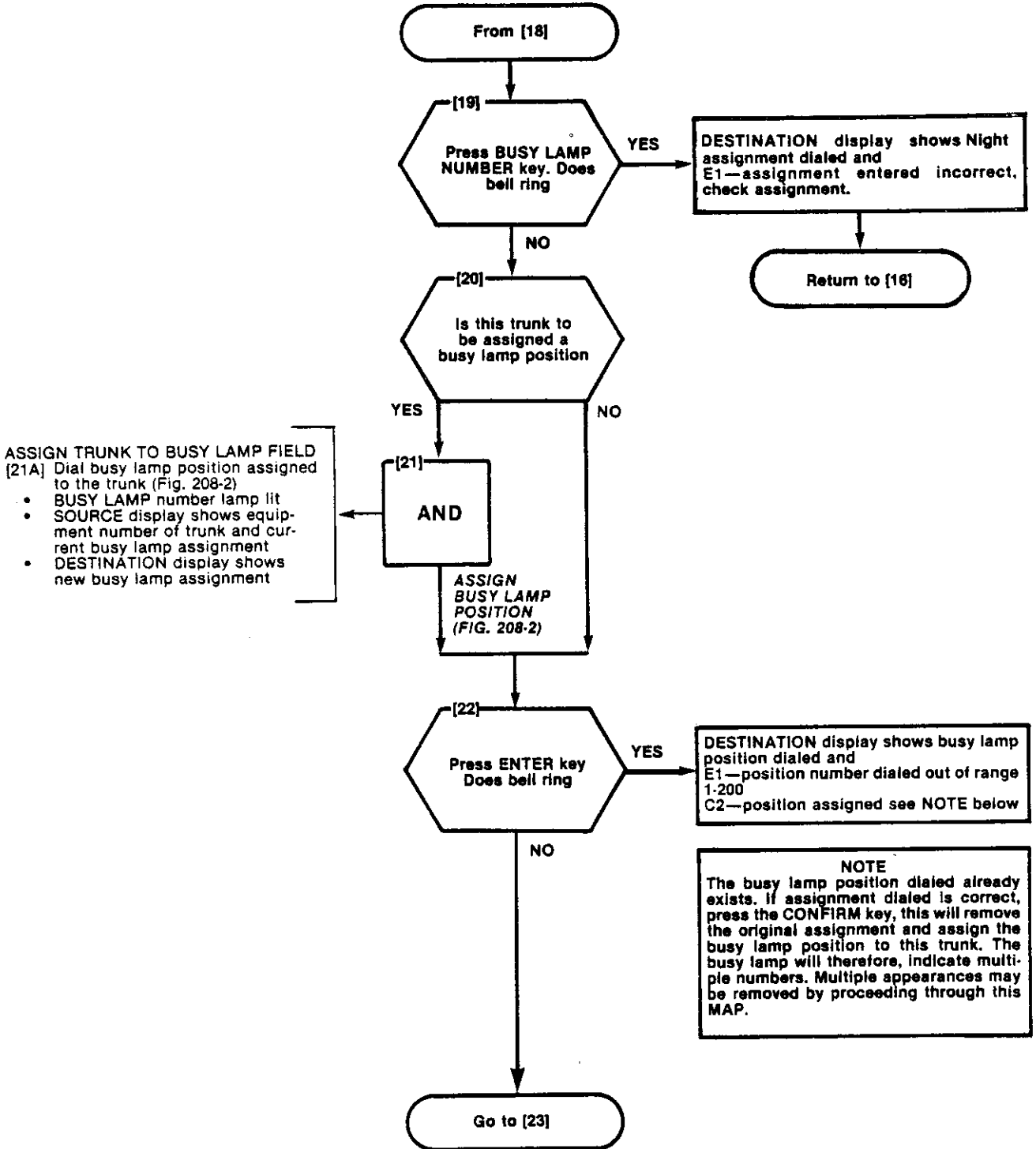
- NIGHT 2 lamp lit
- SOURCE display shows current assignment of trunk
- DESTINATION display shows code dialed

Code Assignment	Display
#0 Attendant console	⌋0
#1 Bell 1 plus Attendant	⌋1
#2 Bell 2 plus Attendant	⌋2
#3 Bell 3 plus Attendant	⌋3
nnn Equipment number of extension	nnn
→aa Hunt group number 1-12	⌋aa

**NOTE**  
 The # Key is displayed as ⌋ on the console display. The \* Key is displayed as ⌋ on the console display.

SECTION MITL9105/9110-097-210-NA

PROGRAM NON DIAL-IN TRUNKS
MAP210-208
Issue 2, February 1982
Sheet 8 of 10



PROGRAM NON DIAL-IN TRUNKS
MAP210-208
Issue 2, February 1982
Sheet 9 of 10

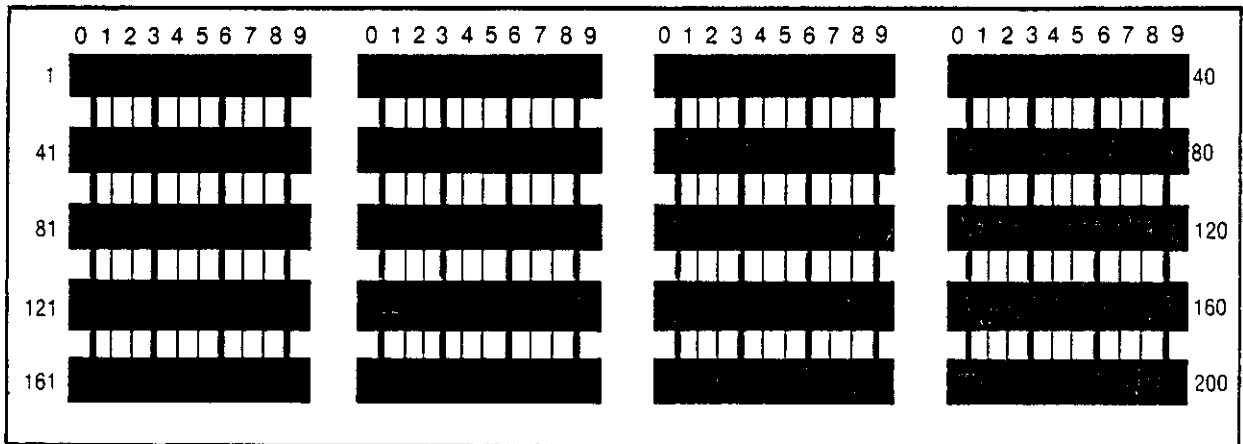
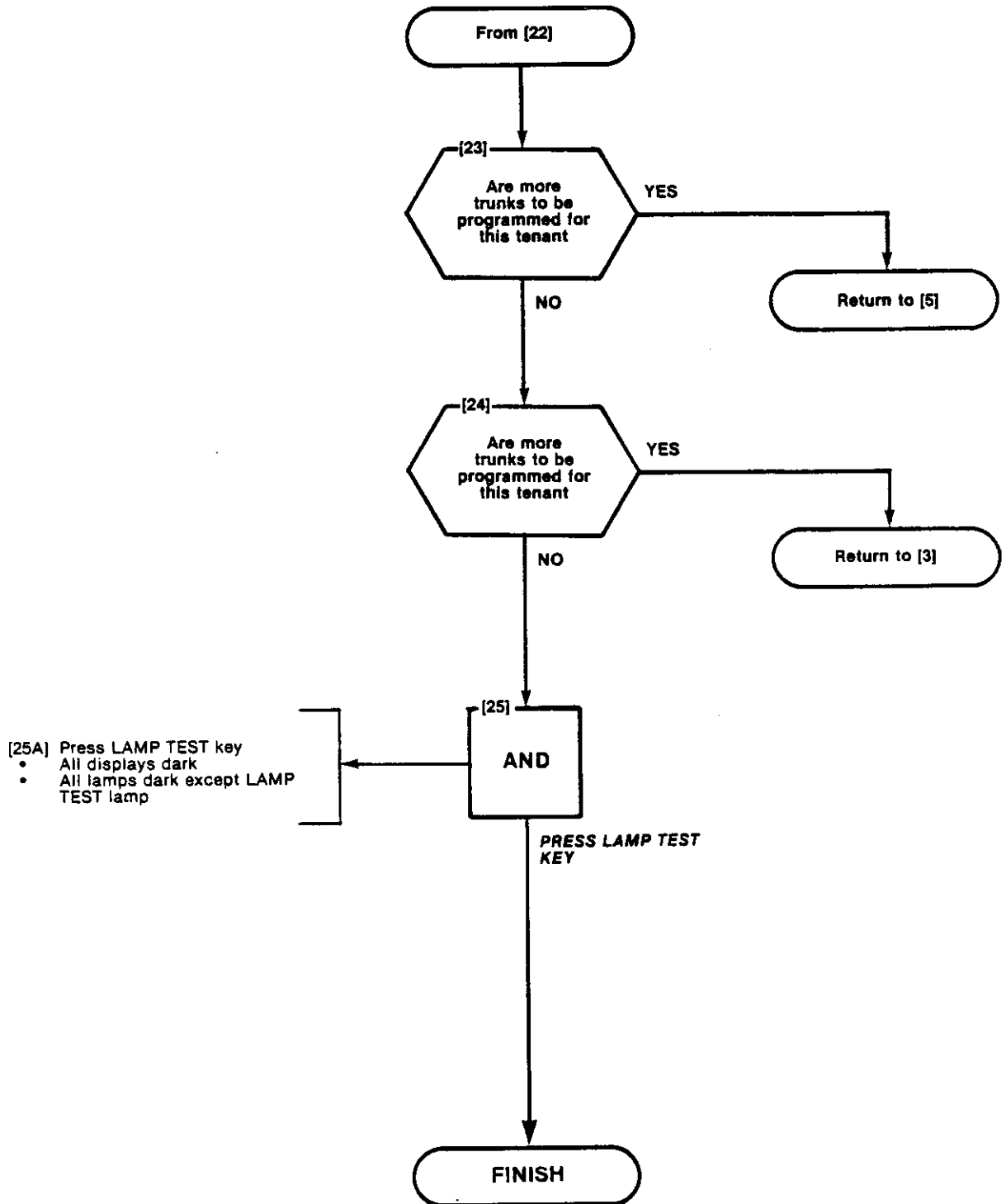


Fig. 208-2 Busy Lamp Position

3209

SECTION MITL9105/9110-097-210-NA

PROGRAM NON DIAL-IN TRUNKS
MAP210-208
Issue 2, February 1982
Sheet 10 of 10



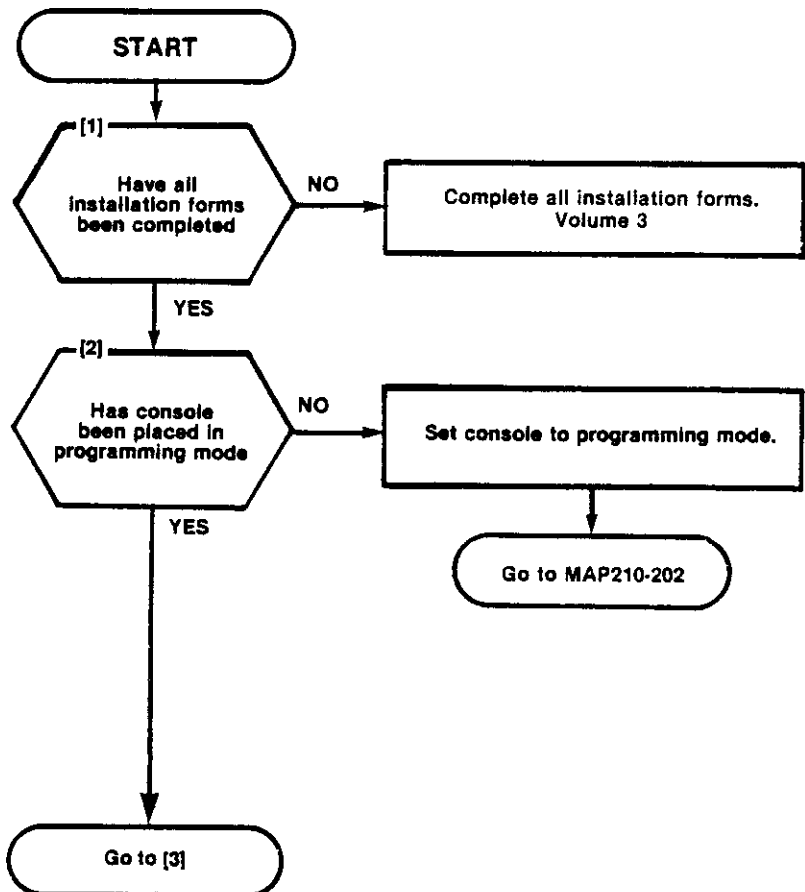
PROGRAM DIAL-IN TRUNKS
MAP210-209
Issue 2, February 1982
Sheet 1 of 8

**NOTES**

- (1) All entries are made from the console dial pad
- (2) TRUNK lamp remains lit throughout procedure
- (3) A display of EO indicates that an incorrect key was pressed. Press the key specified in MAP and proceed.
- (4) This flow chart applies to E&M, LOOP and DX Tie Trunks

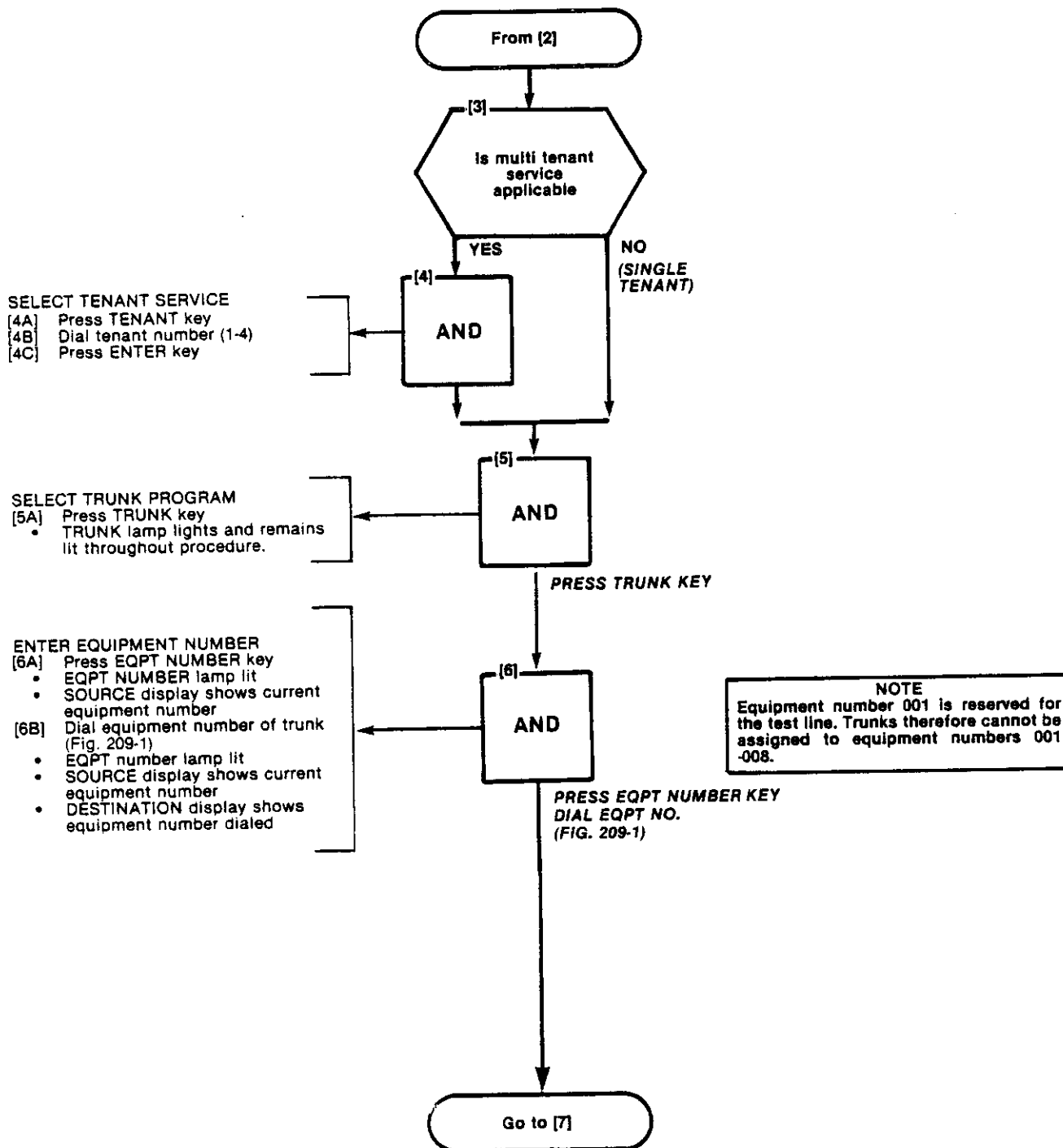
**SYNOPSIS**

Select tenant service if required.  
 Press TRUNK key.  
 Enter Equipment number (10-112/162-256)  
 Enter Trunk type number 2 or 4, 21 or 41  
 Enter Trunk COS  
 Enter Toll Allow/Deny code  
 Enter Busy Lamp Position number  
 Press ENTER



SECTION MITL9105/9110-097-210-NA

PROGRAM DIAL-IN TRUNKS
MAP210-209
Issue 2, February 1982
Sheet 2 of 8





PROGRAM DIAL-IN TRUNKS
MAP210-209
Issue 2, February 1982
Sheet 3 of 8

HARDWARE POSITION NUMBER	PLUG 7						PLUG 9						PLUG 11						EXTENSION UNIT NO.	TRUNK UNIT NO. (4 TRUNK)	TRUNK UNIT NO. (2 TRUNK)				
	161	169	177	185	193	201	209	217	225	233	241	249													
162	170	178	186	194	202	210	218	226	234	242	250											2	1	1	
163	171	179	187	195	203	211	219	227	235	243	251											3			
164	172	180	188	196	204	212	220	228	236	244	252											4	2		
165	173	181	189	197	205	213	221	229	237	245	253											5			
166	174	182	190	198	206	214	222	230	238	246	254											6	3	2	
167	175	183	191	199	207	215	223	231	239	247	255											7			
168	176	184	192	200	208	216	224	232	240	248	256											8	4		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	CARD POSITION		
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	SLOT NUMBER		
	PLUG 8						PLUG 10						PLUG 12												

SHELF 2 (SX-200 ONLY)

HARDWARE POSITION NUMBER	PLUG 1						PLUG 3						PLUG 5						EXTENSION UNIT NO.	TRUNK UNIT NO. (4 TRUNK)	TRUNK UNIT NO. (2 TRUNK)					
	001	009	017	025	033	041	049	057	065	073	081	089	097	105												
002	010	018	026	034	042	050	058	066	074	082	090	098	106											2	1	1
003	011	019	027	035	043	051	059	067	075	083	091	099	107					RESERVED						3		
004	012	020	028	036	044	052	060	068	076	084	092	100	108					FOR						4	2	
005	013	021	029	037	045	053	061	069	077	085	093	101	109					COMMON						5		
006	014	022	030	038	046	054	062	070	078	086	094	102	110					CONTROLS						6	3	2
007	015	023	031	039	047	055	063	071	079	087	095	103	111											7		
008	016	024	032	040	048	056	064	072	080	088	096	104	112											8	4	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	CARD POSITION			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	SLOT NUMBER			
	PLUG 2						PLUG 4						PLUG 6													

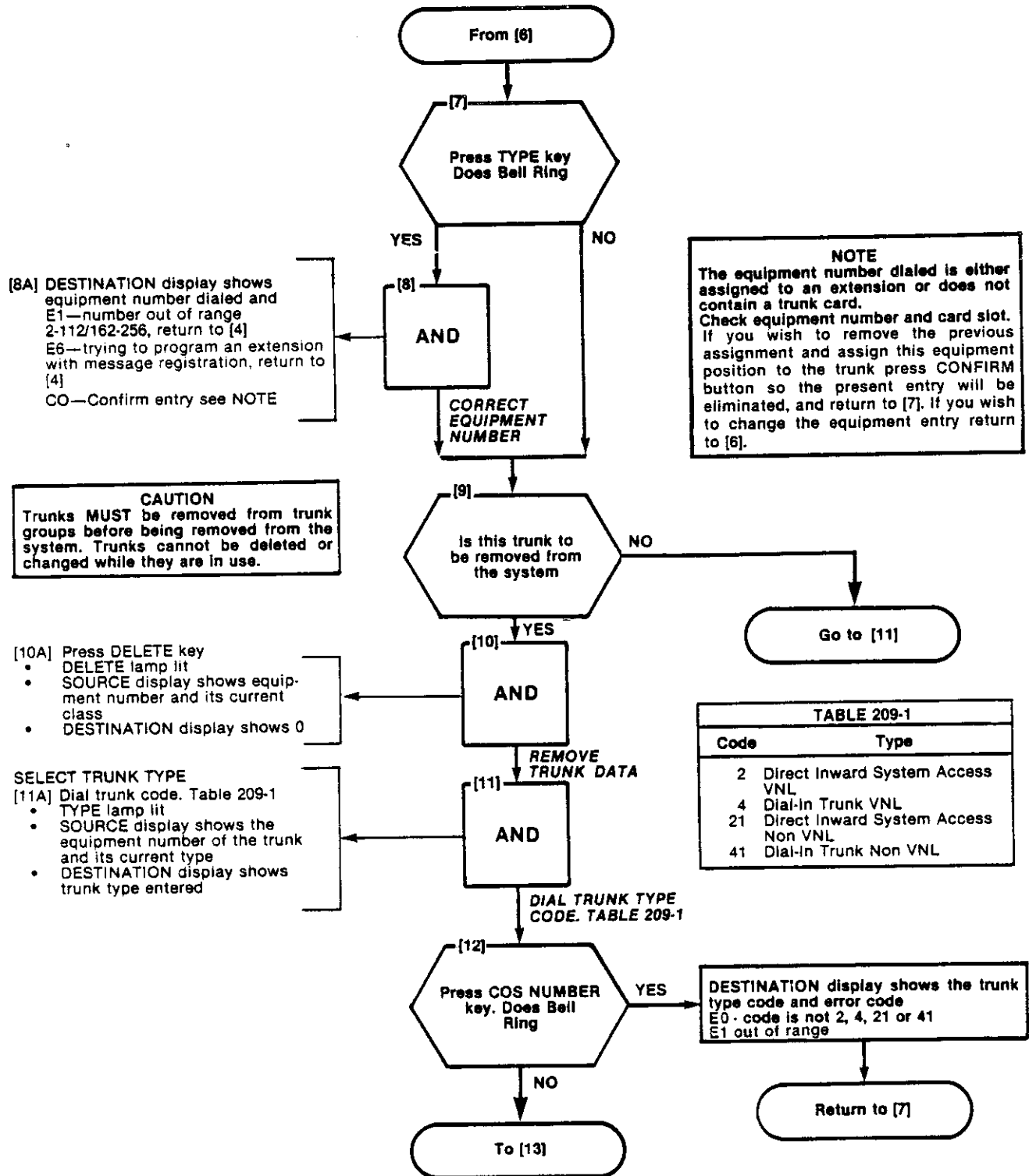
SHELF 1

- NOTES: 1. EQUIPMENT POSITION 001 IS RESERVED FOR THE TEST LINE AND MUST THEREFORE BE EQUIPPED WITH A LINE CARD.  
 2. TRUNK EQUIPMENT NUMBER IS SAME AS INDIVIDUAL TRUNK ACCESS CODE.

Fig. 209-1 Hardware/Equipment Numbering

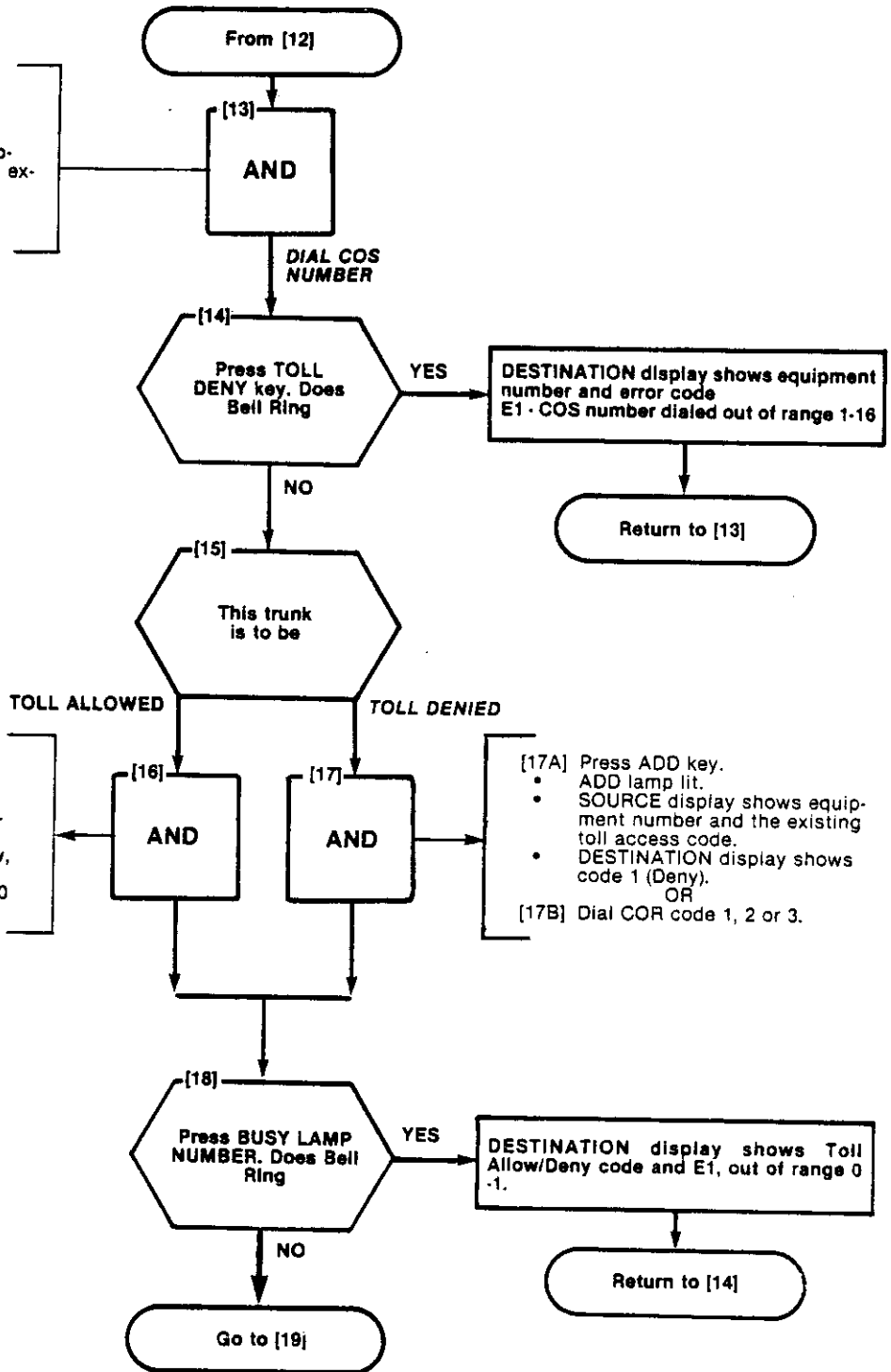
SECTION MITL9105/9110-097-210-NA

PROGRAM NEW DIAL-IN TRUNKS
MAP210-209
Issue 2, February 1982
Sheet 4 of 8



PROGRAM DIAL-IN TRUNKS
MAP210-209
Issue 2, February 1982
Sheet 5 of 8

ENTER COS NUMBER  
 [13A] Dial COS number (1-16)  
 • COS NUMBER lamp lit  
 • SOURCE display shows equipment number of trunk and its existing COS number  
 • DESTINATION display shows COS number dialed

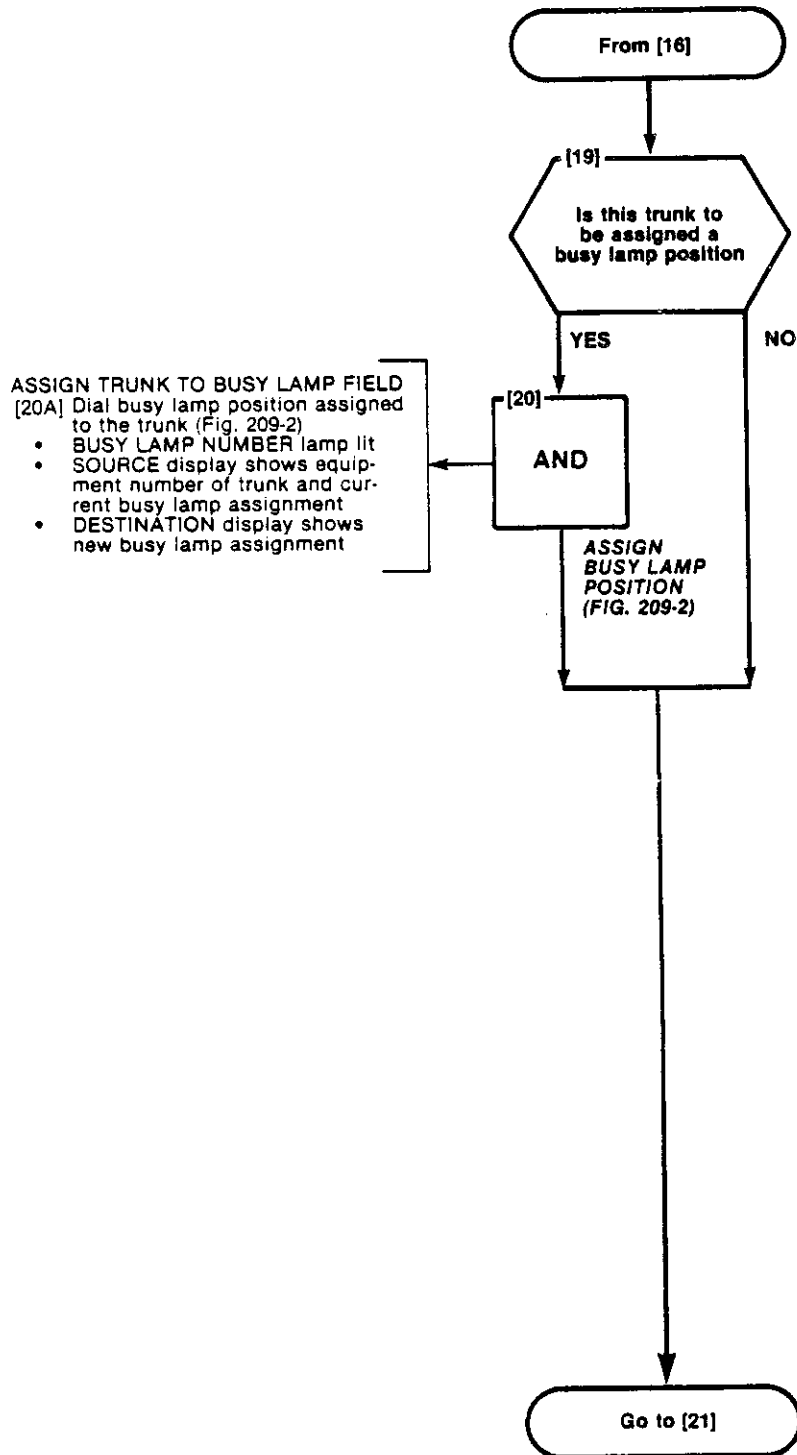


ASSIGN TOLL ACCESS  
 [16A] Press DELETE key  
 • DELETE lamp lit  
 • SOURCE display shows equipment number and the existing toll Allow/Deny code (0 = Allow, 1 = Deny)  
 • DESTINATION display shows 0 TOLL ALLOWED

[17A] Press ADD key.  
 • ADD lamp lit.  
 • SOURCE display shows equipment number and the existing toll access code.  
 • DESTINATION display shows code 1 (Deny).  
 OR  
 [17B] Dial COR code 1, 2 or 3.

SECTION MITL9105/9110-097-210-NA

PROGRAM DIAL-IN TRUNKS
MAP210-209
Issue 2, February 1982
Sheet 6 of 8



PROGRAM DIAL-IN TRUNKS
MAP210-209
Issue 2, February 1982
Sheet 7 of 8

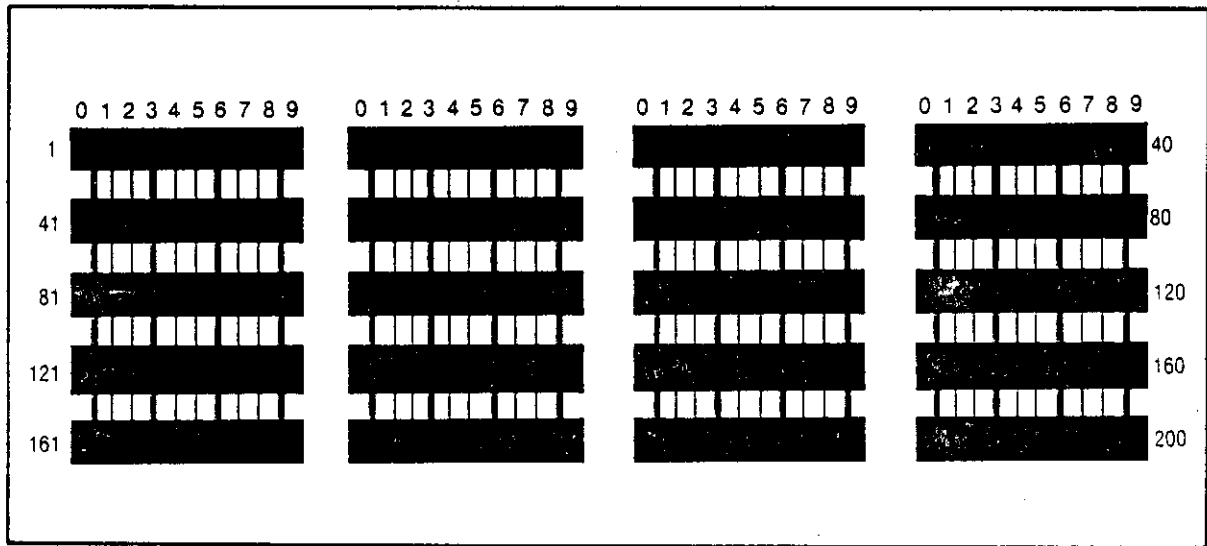
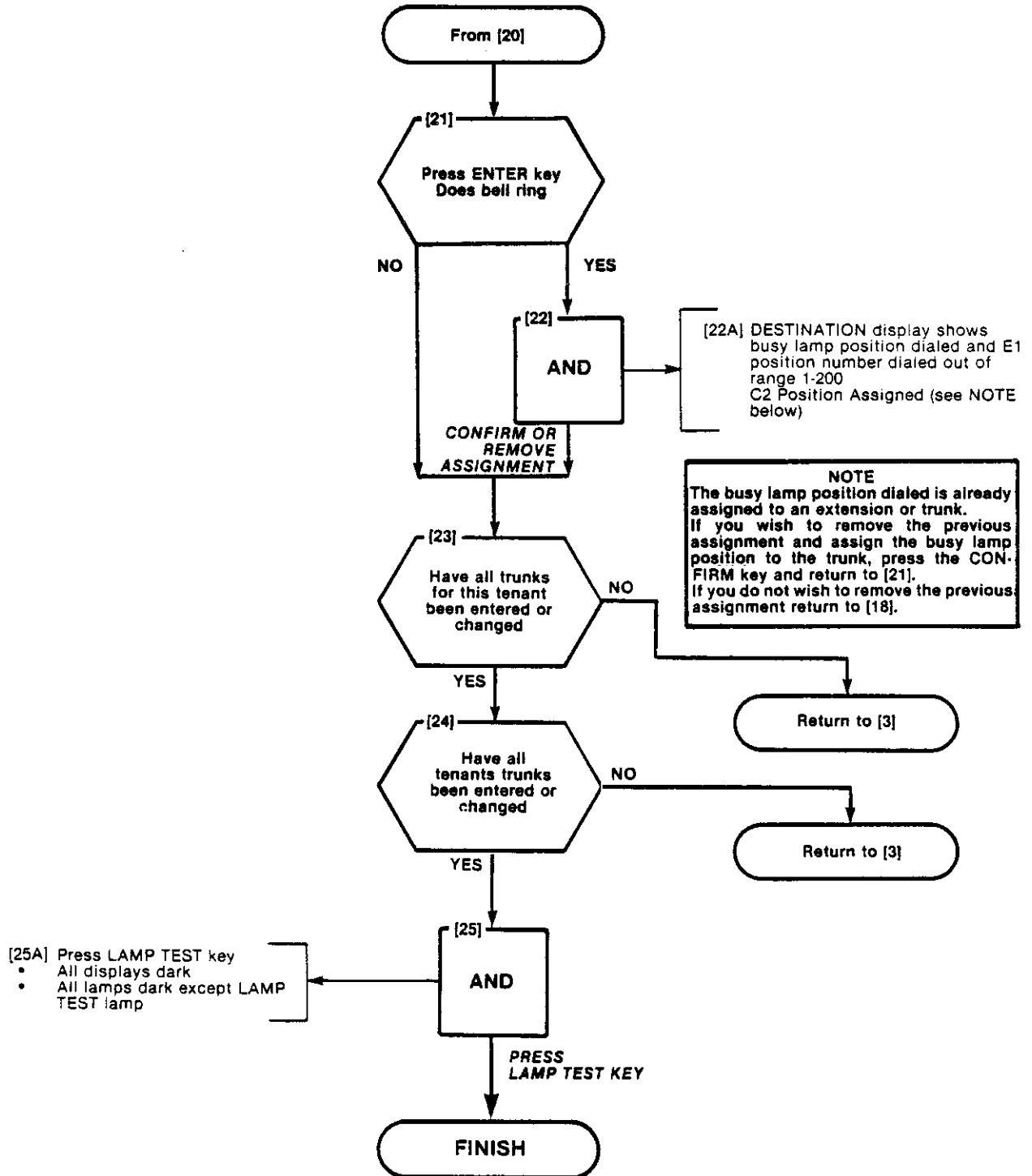


Fig. 209-2 Busy Lamp Position Numbering

SECTION MITL9105/9110-097-210-NA

PROGRAM DIAL-IN TRUNKS
MAP210-209
Issue 2, February 1982
Sheet 8 of 8



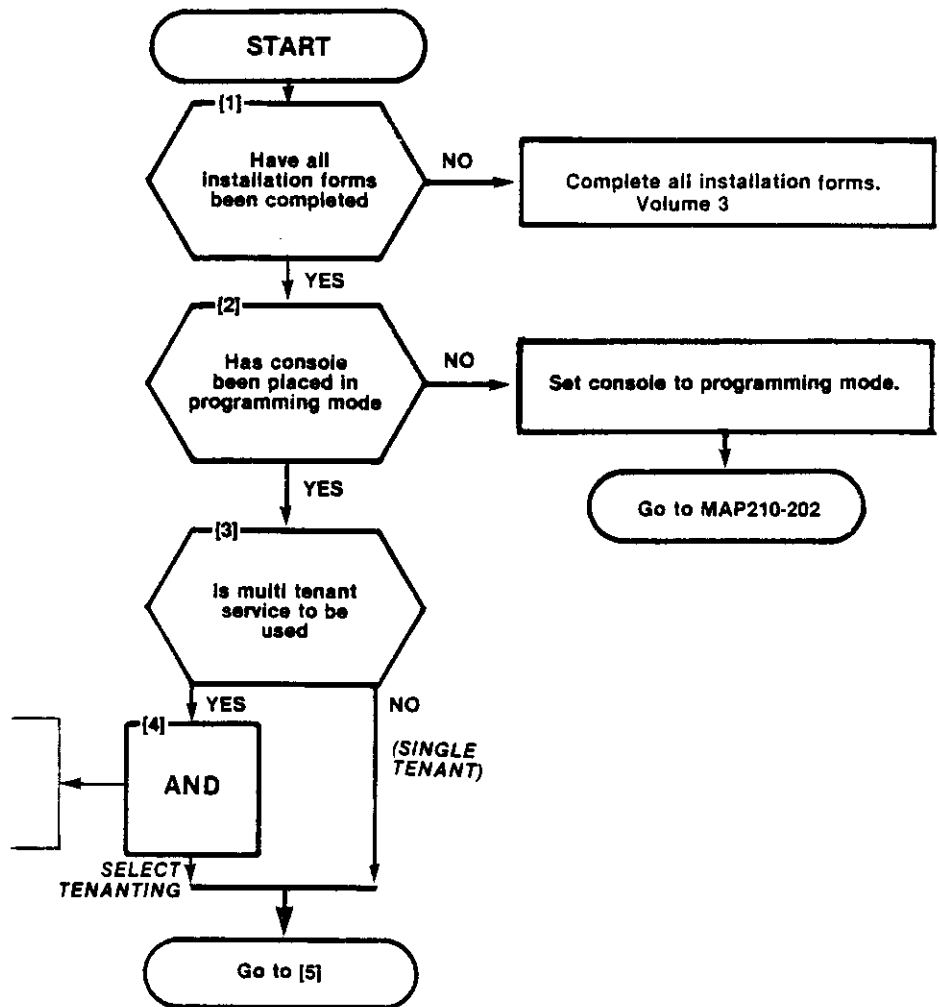
PROGRAM DID TRUNKS
MAP210-210
Issue 2, February 1982
Sheet 1 of 6

**NOTES**

- (1) All entries are made from the console dial pad.
- (2) Trunk lamp remains lit throughout procedure.
- (3) A display of E0 indicates that an incorrect key has been pressed. Press the key specified in the MAP and proceed.

**SYNOPSIS**

Select required tenant.  
 Enter equipment number  
 10-112/162-256  
 Enter trunk type code 3, 31, 6, or 61.  
 Enter I/C code.  
 Enter Busy Lamp assignment.  
 Press ENTER.



**SELECT TENANT SERVICE**

[4A] Press TENANT key  
 [4B] Dial tenant number (1-4)  
 [4C] Press ENTER key

SECTION MITL9105/9110-097-210-NA

PROGRAM DID TRUNKS
MAP210-210
Issue 2, February 1982
Sheet 2 of 6

HARDWARE POSITION NUMBER	PLUG 7						PLUG 9						PLUG 11						EXTENSION UNIT NO.	TRUNK UNIT NO. (4 TRUNK)	TRUNK UNIT NO. (2 TRUNK)
	161 169 177 185 193 201	209 217 225 233 241 249																			
162 170 178 186 194 202	210 218 226 234 242 250																				
163 171 179 187 195 203	211 219 227 235 243 251																				
164 172 180 188 196 204	212 220 228 236 244 252																				
165 173 181 189 197 205	213 221 229 237 245 253																				
166 174 182 190 198 206	214 222 230 238 246 254																				
167 175 183 191 199 207	215 223 231 239 247 255																				
168 176 184 192 200 208	216 224 232 240 248 256																				
1 2 3 4 5 6	7 8 9 10 11 12	13 14 15 16 17 18	19 20 21 22	CARD POSITION																	
31 32 33 34 35 36	37 38 39 40 41 42	43 44 45 46 47 48	49 50 51 52	SLOT NUMBER																	
	PLUG 8	PLUG 10	PLUG 12																		

SHELF 2 (SX-200 ONLY)

HARDWARE POSITION NUMBER	PLUG 1						PLUG 3						PLUG 5						EXTENSION UNIT NO.	TRUNK UNIT NO. (4 TRUNK)	TRUNK UNIT NO. (2 TRUNK)
	001 009 017 025 033 041	049 057 065 073 081 089	097 105																		
002 010 018 026 034 042	050 058 066 074 082 090	098 106																			
003 011 019 027 035 043	051 059 067 075 083 091	099 107																			
004 012 020 028 036 044	052 060 068 076 084 092	100 108																			
005 013 021 029 037 045	053 061 069 077 085 093	101 109																			
006 014 022 030 038 046	054 062 070 078 086 094	102 110																			
007 015 023 031 039 047	055 063 071 079 087 095	103 111																			
008 016 024 032 040 048	056 064 072 080 088 096	104 112																			
1 2 3 4 5 6	7 8 9 10 11 12	13 14 15 16 17 18	19 20 21 22	CARD POSITION																	
1 2 3 4 5 6	7 8 9 10 11 12	13 14 15 16 17 18	19 20 21 22	SLOT NUMBER																	
	PLUG 2	PLUG 4	PLUG 6																		

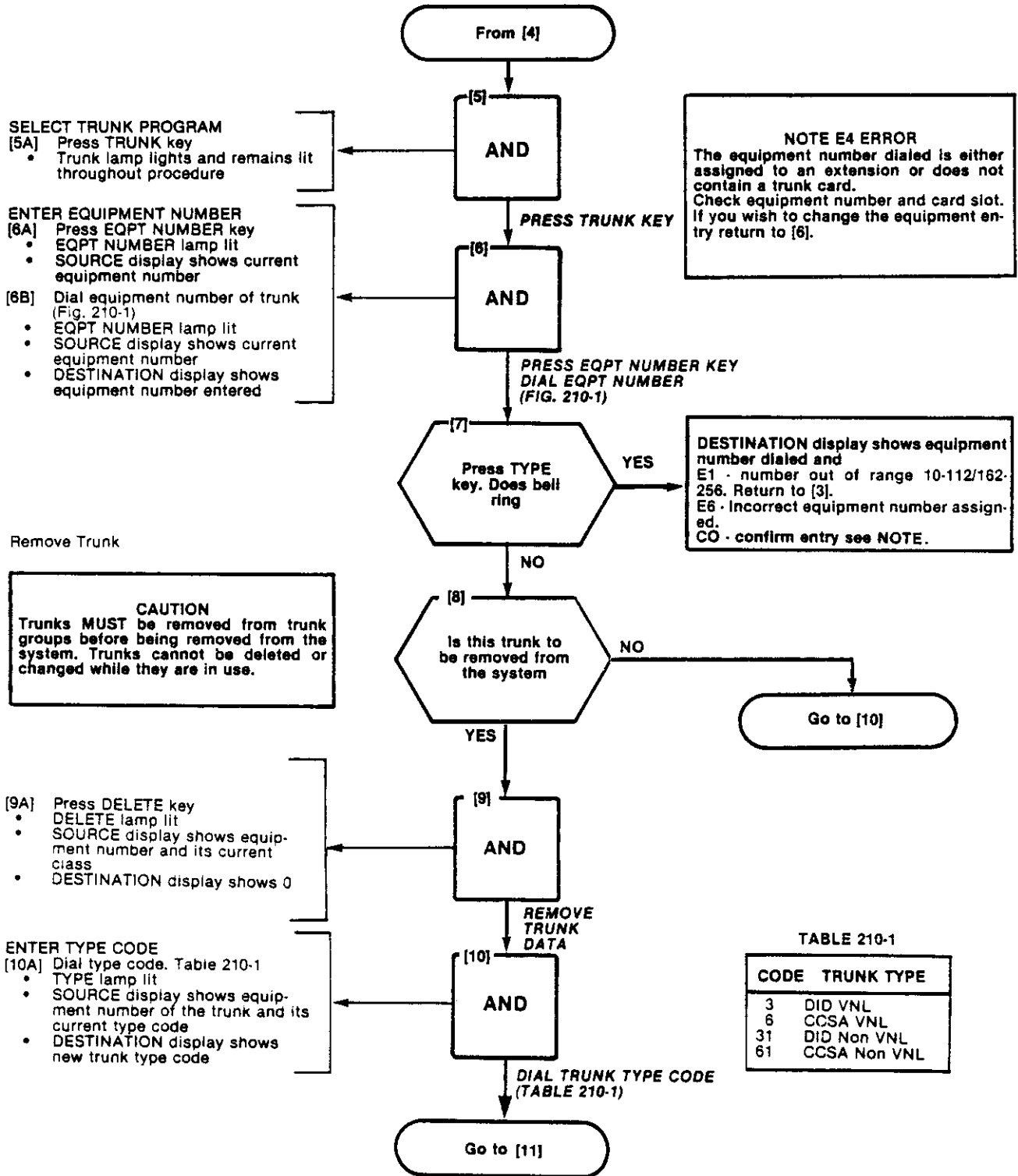
SHELF 1

- NOTES: 1. EQUIPMENT POSITION 001 IS RESERVED FOR THE TEST LINE AND MUST THEREFORE BE EQUIPPED WITH A LINE CARD.  
 2. TRUNK EQUIPMENT NUMBER IS SAME AS INDIVIDUAL TRUNK ACCESS CODE.

Fig. 210-1 Hardware/Equipment Numbering

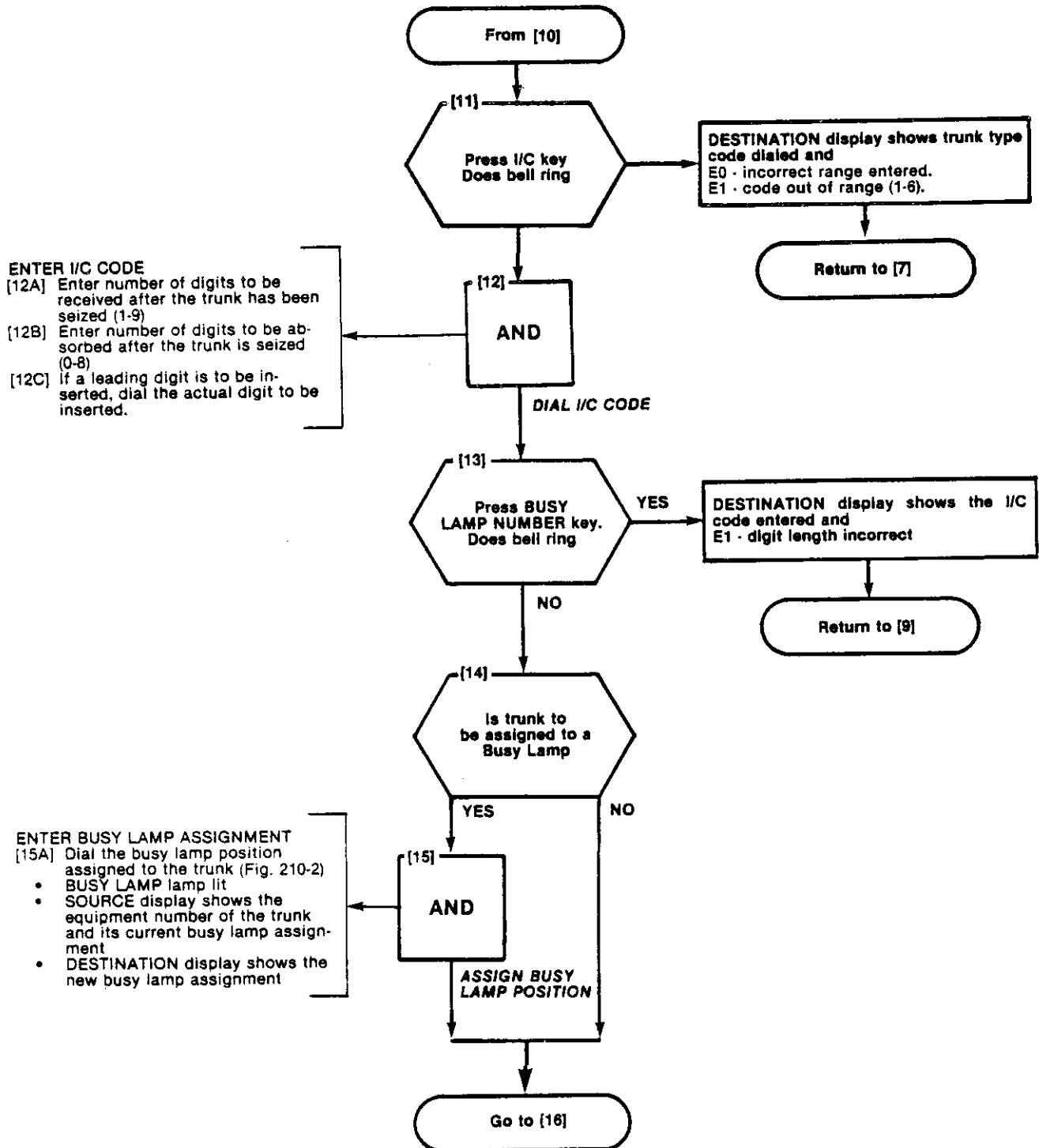


PROGRAM DID TRUNKS
MAP210-210
Issue 2, February 1982
Sheet 3 of 6

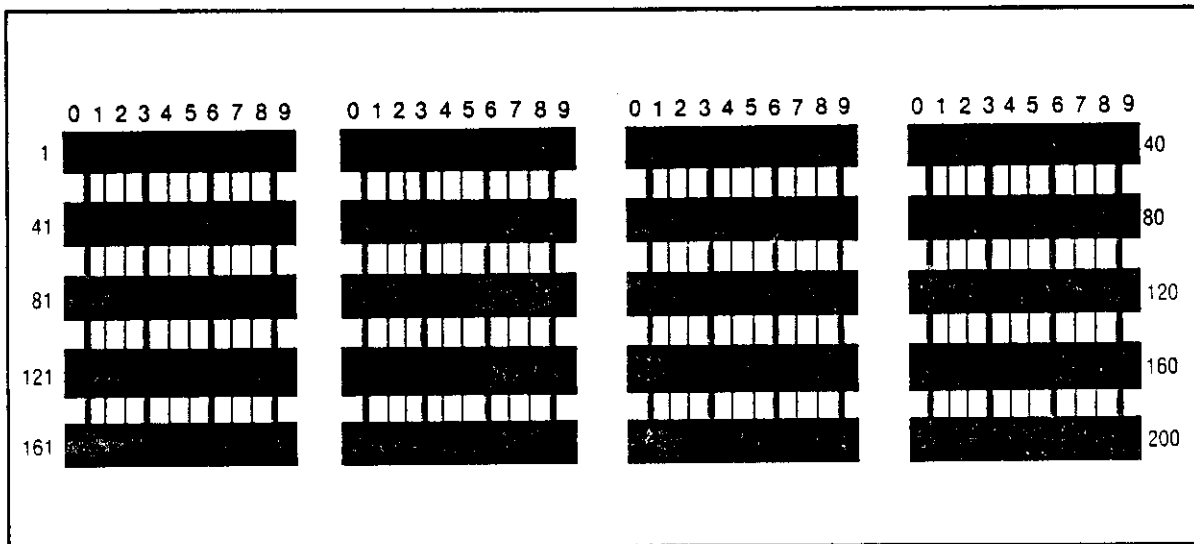


SECTION MITL9105/9110-097-210-NA

PROGRAM DID TRUNKS
MAP210-210
Issue 2, February 1982
Sheet 4 of 6



PROGRAM DID TRUNKS
MAP210-210
Issue 2, February 1982
Sheet 5 of 6

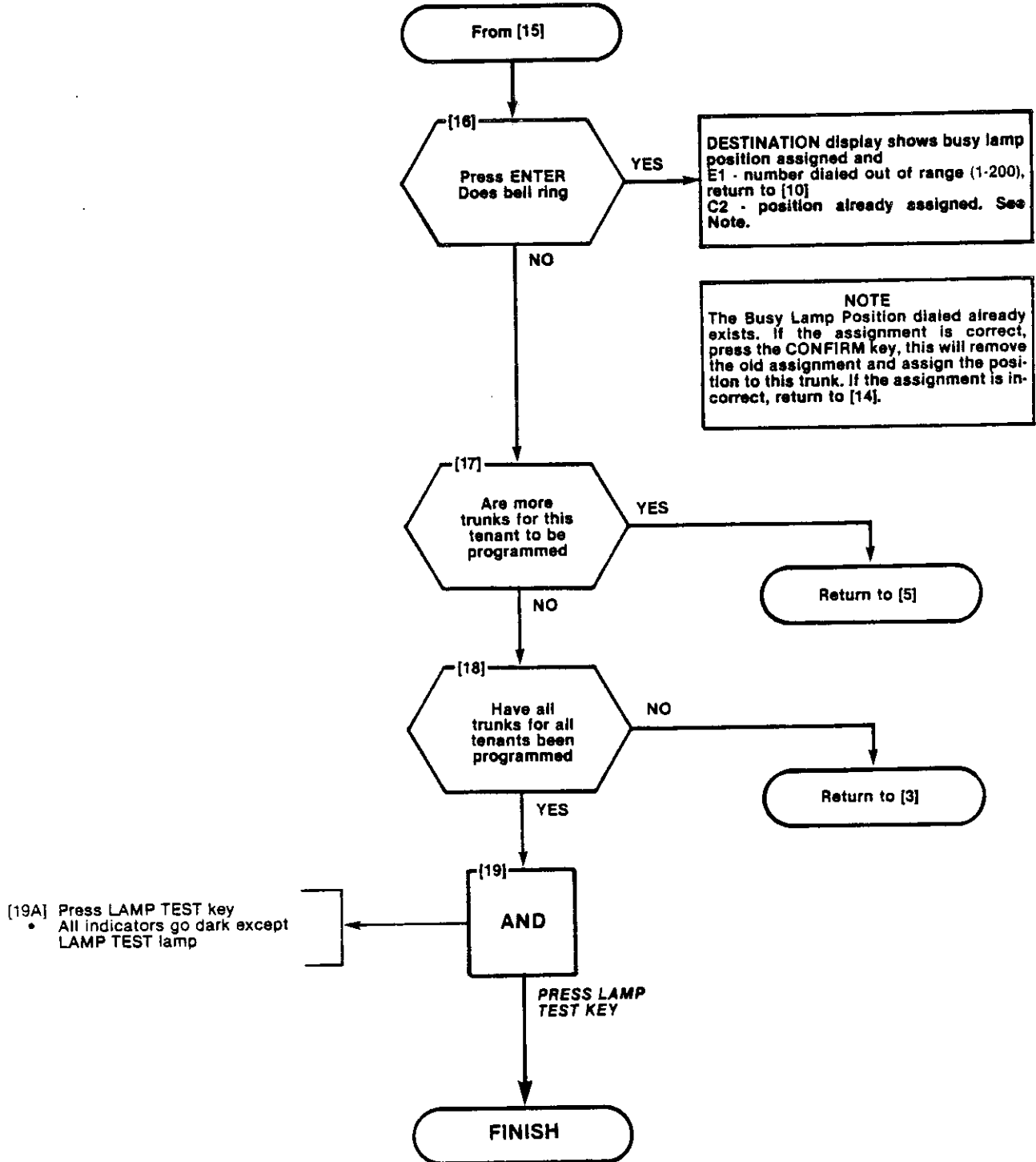


322

Fig. 210-2 Busy Lamp Position Numbering

SECTION MITL9105/9110-097-210-NA

PROGRAM DID TRUNKS
MAP210-210
Issue 2, February 1982
Sheet 6 of 6



PROGRAM TRUNK GROUPS

MAP210-211

Issue 2, February 1982

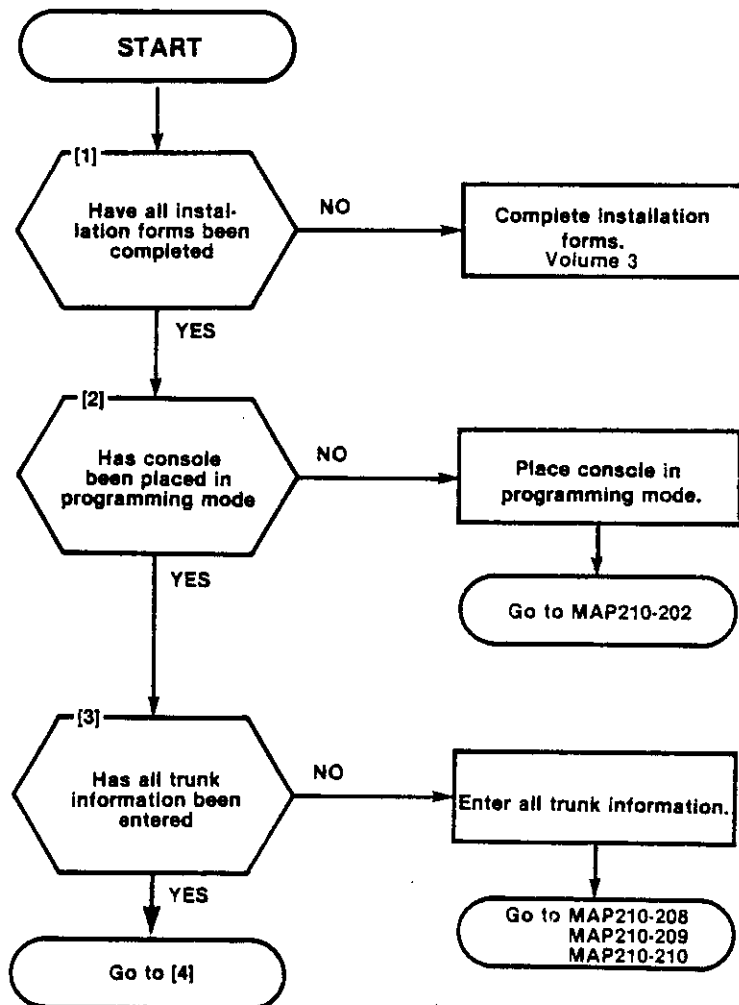
Sheet 1 of 7

**NOTES**

- (1) All entries are made from the console dial pad.
- (2) TRUNK GROUP lamp remains lit throughout procedure.
- (3) A display of E0 indicates that an incorrect key has been pressed, press the key specified in the MAP.
- (4) If an equipment number is to be changed all trunks within the trunk group must be re-entered.

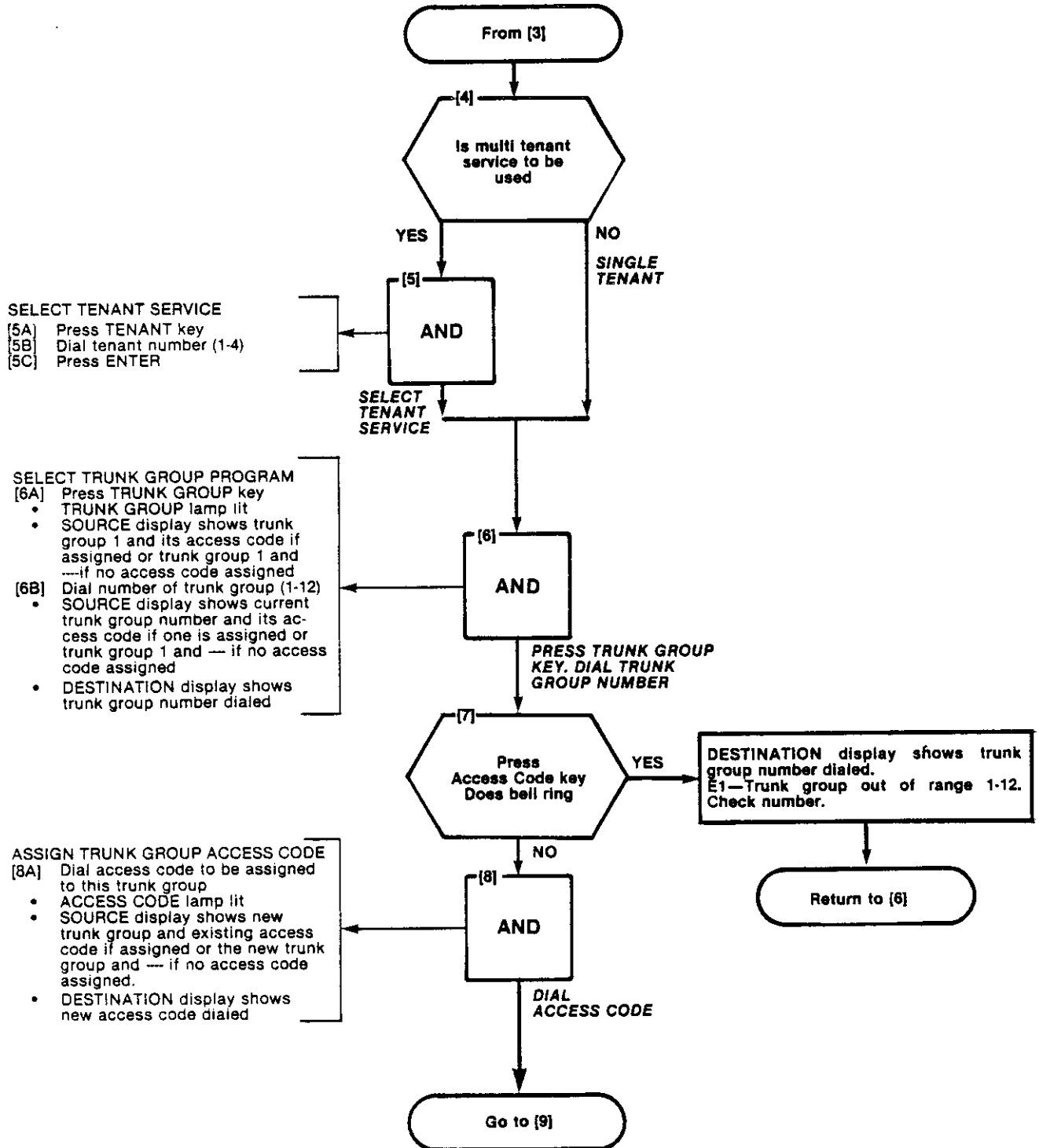
**SYNOPSIS**

Select required tenant.  
Set up trunk group and access code.  
Assign trunk group type, Toll Deny and Overflow Group codes.  
Enter all trunk equipment numbers assigned to the trunk group.

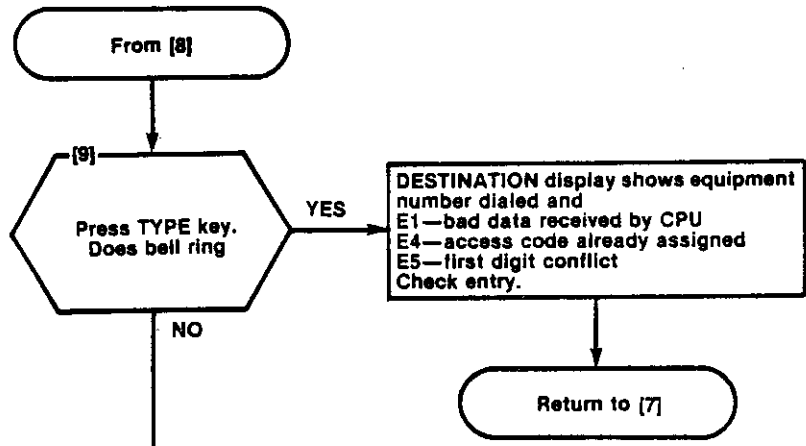


SECTION MITL9105/9110-097-210-NA

PROGRAM TRUNK GROUPS
MAP210-211
Issue 2, February 1982
Sheet 2 of 7



PROGRAM TRUNK GROUPS
MAP210-211
Issue 2, February 1982
Sheet 3 of 7



ASSIGN TRUNK TYPE

- [10A] Dial trunk type code (Table 211-1)
- TYPE lamp lit
  - SOURCE display shows trunk group number and current type
  - DESTINATION display four digit type code dialed

TABLE 211-1

Entry	Code	Description
First digit Note 1	1	No Answer Supervision
	2	Answer Supervision
	3	Toll Supervision
	4	Outgoing audio inhibited until answer supervision
Second digit	1	No message register
	2	Message register
	3	SMDR without message register
	4	SMDR with message register
Third digit Note 2	†1	Rotary dial office, no wait for dial tone
	†2	Rotary dial office, wait for dial tone
	‡3	DTMF dial office, no wait for dial tone
	‡4	DTMF dial office, wait for dial tone
Fourth digit Note 3	1	CO trunk
	2	Non-CO trunk
	3	Identified Trunk Group (Non CO)

[10] AND

DIAL TYPE CODE TABLE 211-1

To [11]

NOTE 1

- If answer supervision is not required (or not provided by the CO), then use 1 - No Answer Supervision.
- If tandem trunking or Message Registration is used, then use 2 - Answer Supervision.
- If supervision is used to indicate toll calls, and this feature is required, then use 3 - Toll Supervision.
- If audio cut-through or tie trunk tandem calls is required only after receipt of answer supervision, then use 4 -Outgoing Audio Inhibit until Answer Supervision.

NOTE 2

- If "wait for dial tone" is selected then any digits dialed prior to receipt of CO dial tone are ignored by the PABX. This prevents circumvention of the toll denial by dialing a fast valid digit before CO dial tone is received.

NOTE 3

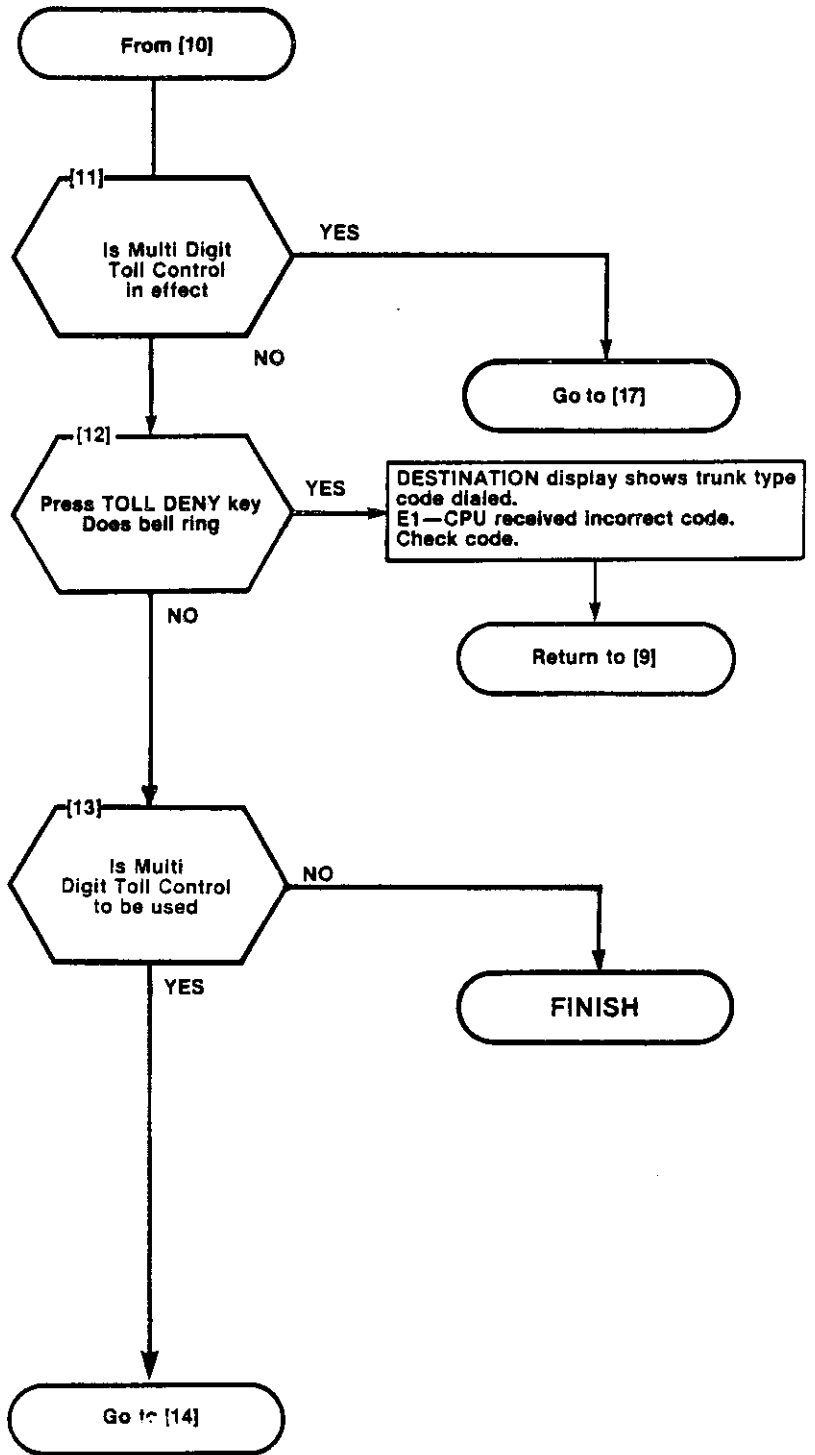
- If the fourth digit selected is 3, the third digit must be 1.

† If extensions are DTMF the trunk will convert to dial pulse. Early line split is not provided.

‡ Trunks will repeat DTMF or dial pulse signals.

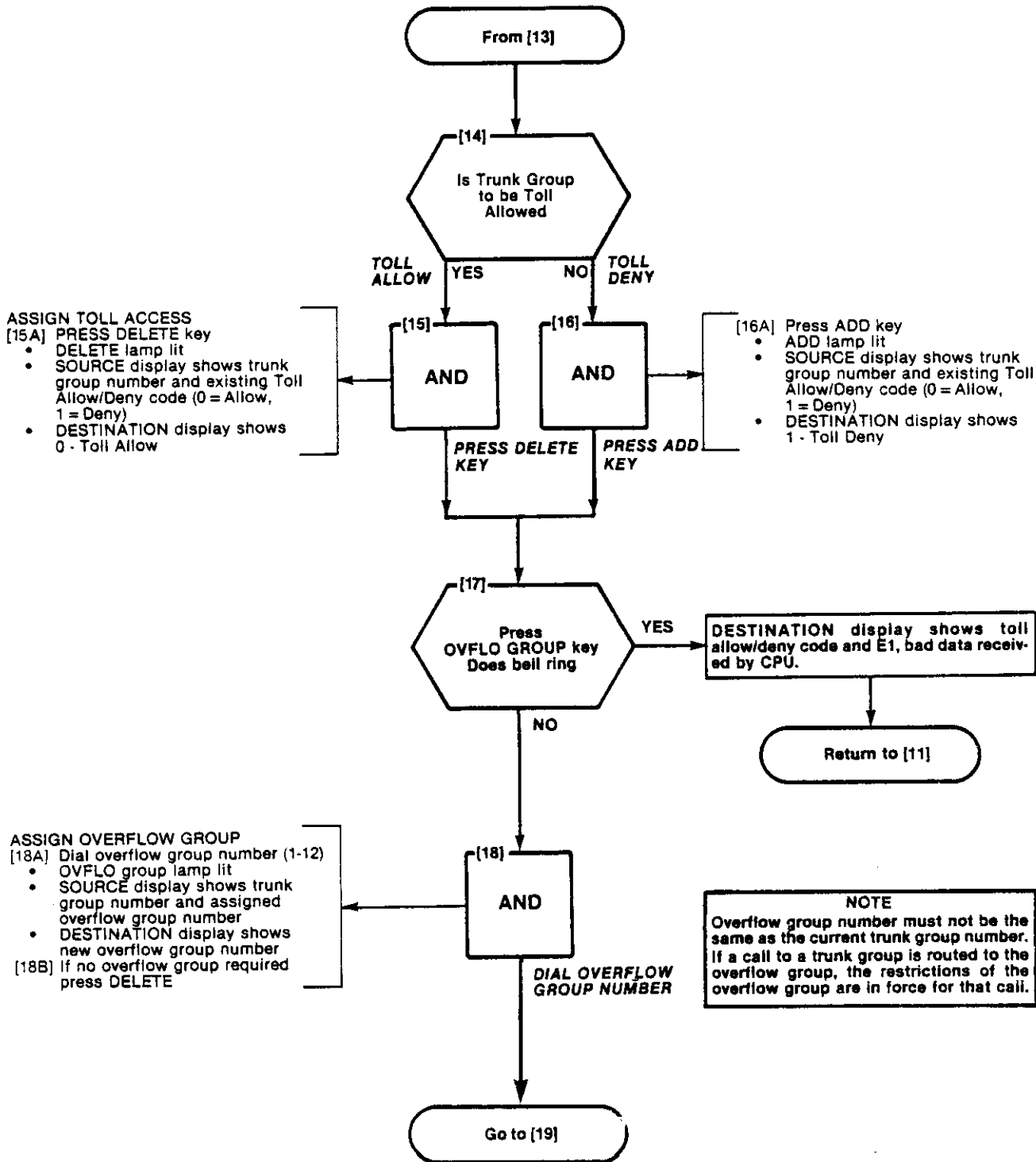
SECTION MITL9105/9110-097-210-NA

PROGRAM TRUNK GROUPS
MAP210-211
Issue 2, February 1982
Sheet 4 of 7





PROGRAM TRUNK GROUPS
MAP210-211
Issue 2, February 1982
Sheet 5 of 7

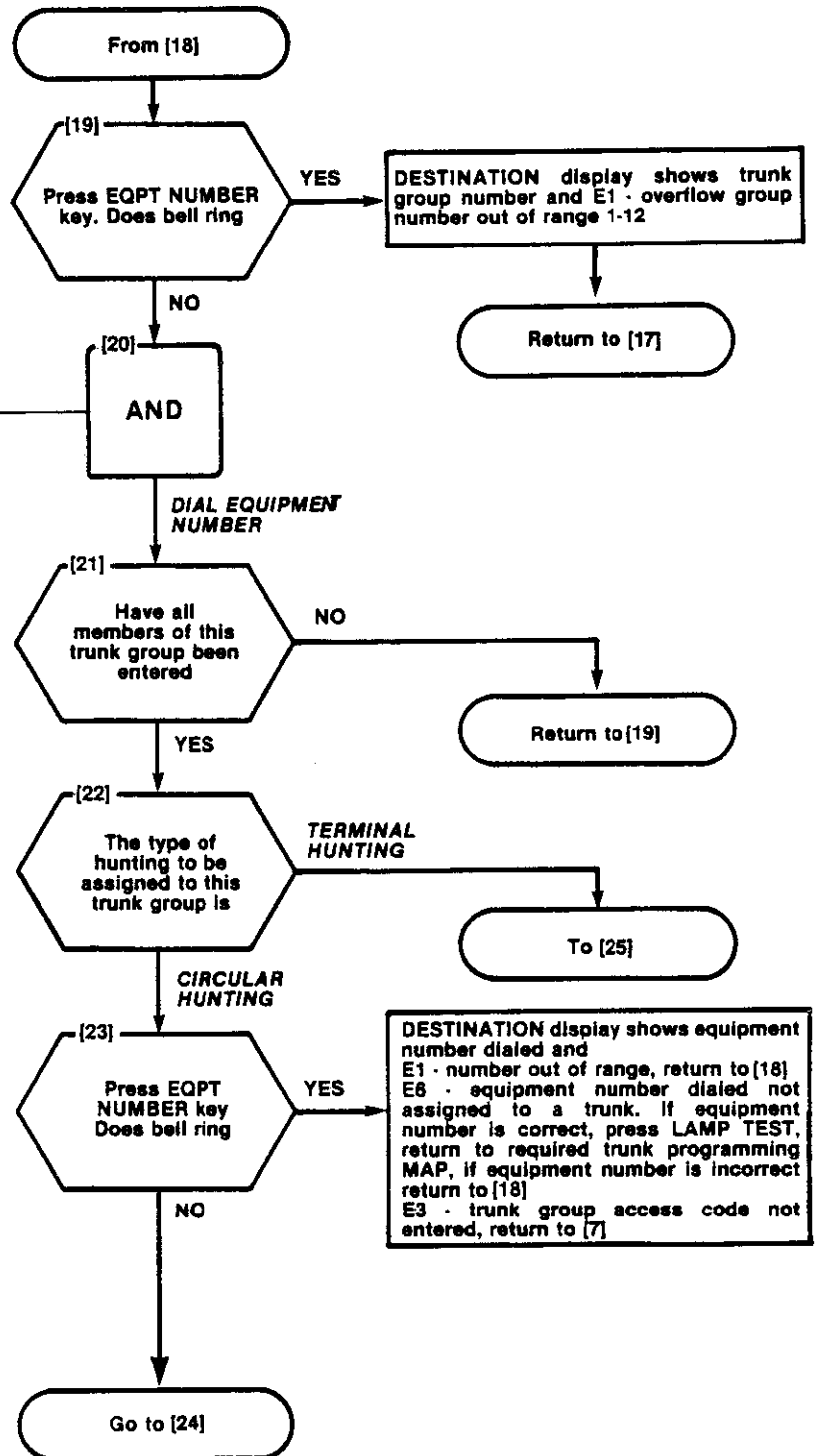


SECTION MITL9105/9110-097-210-NA

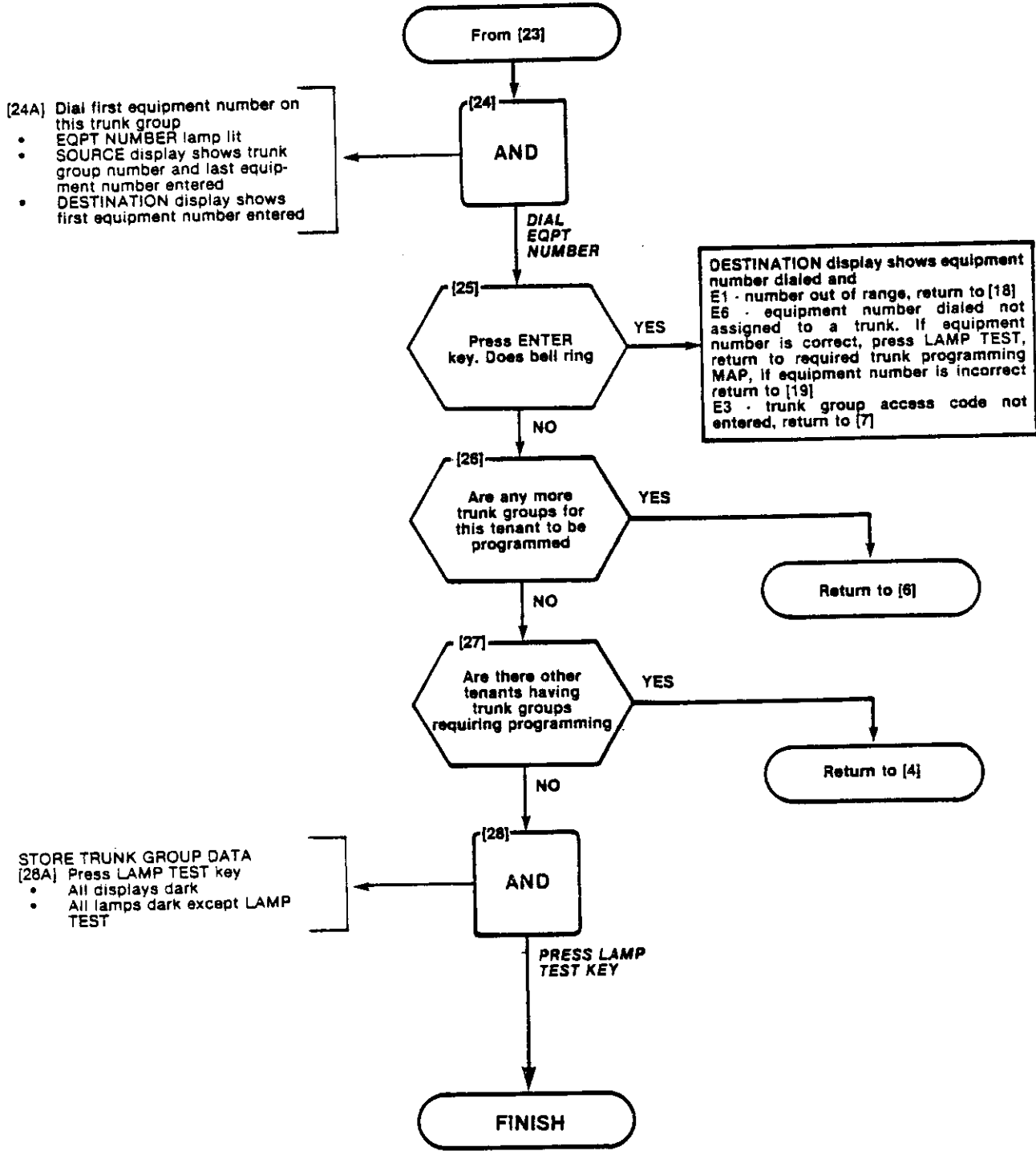
PROGRAM TRUNK GROUPS
MAP210-211
Issue 2, February 1982
Sheet 6 of 7

**ASSIGN EQUIPMENT NUMBERS TO THIS TRUNK GROUP**  
 [20A] Dial equipment number of trunk in trunk group (10-112/162-256)

- EQPT NUMBER lamp lit
- SOURCE display shows the trunk group number and existing equipment number

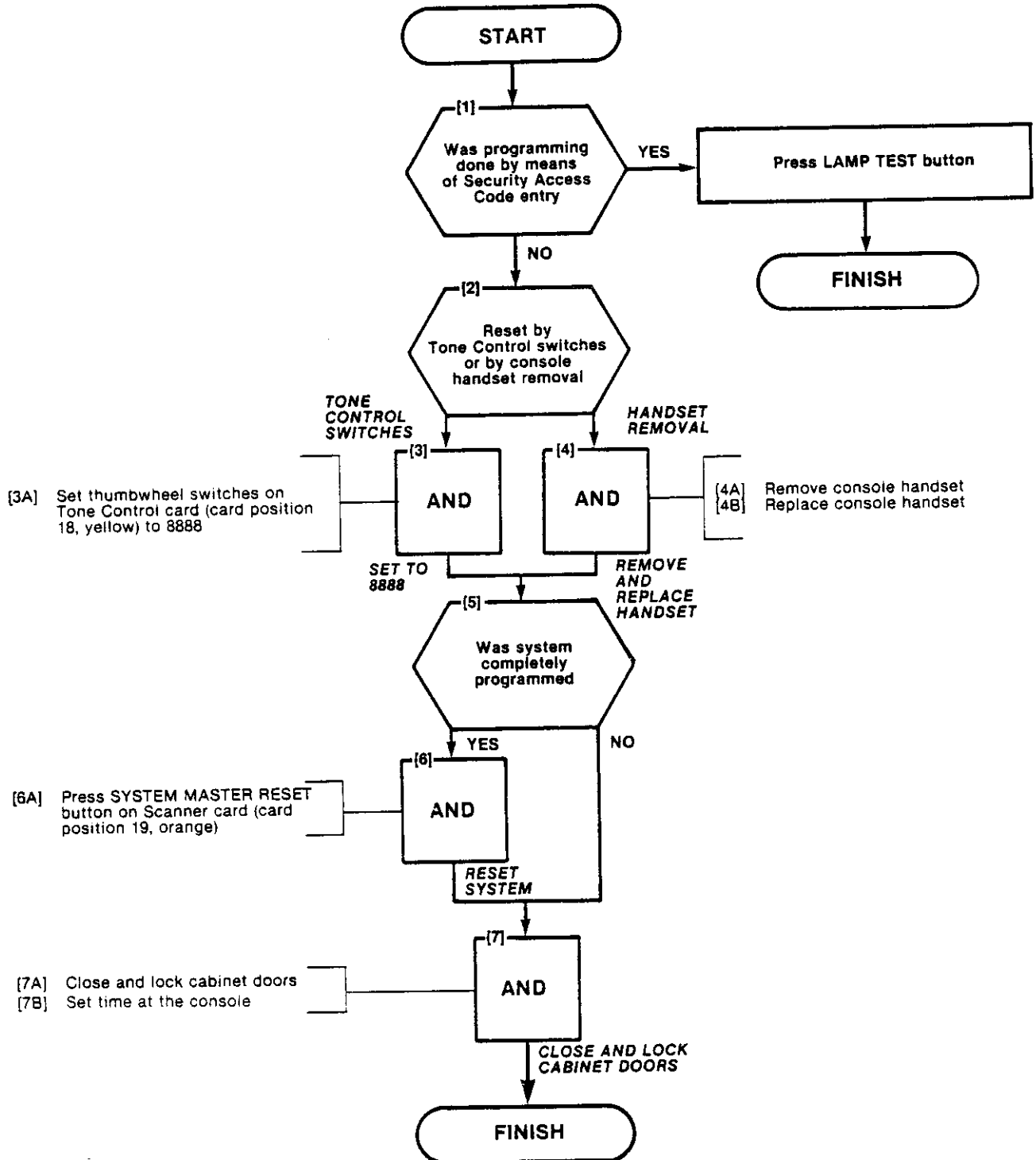


PROGRAM TRUNK GROUPS
MAP210-211
Issue 2, February 1982
Sheet 7 of 7





TERMINATING PROGRAMMING MODE
MAP210-212
Issue 2, February 1982
Sheet 1 of 1





RANGE PROGRAMMING FOR EXTENSIONS
MAP210-213
Issue 2, February 1982
Sheet 1 of 3

**SYNOPSIS  
RANGE PROGRAMMING**

Enter RANGE programming  
 Enter first equipment number, dial \*  
 Enter last equipment number  
 Enter first EXTN number  
 Enter first BUSY LAMP NUMBER  
 Enter COS number for Range  
 Enter Toll Deny  
 Enter Pick-Up Group  
 Enter Data

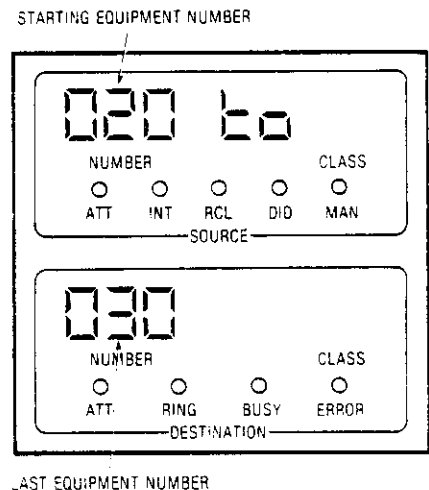
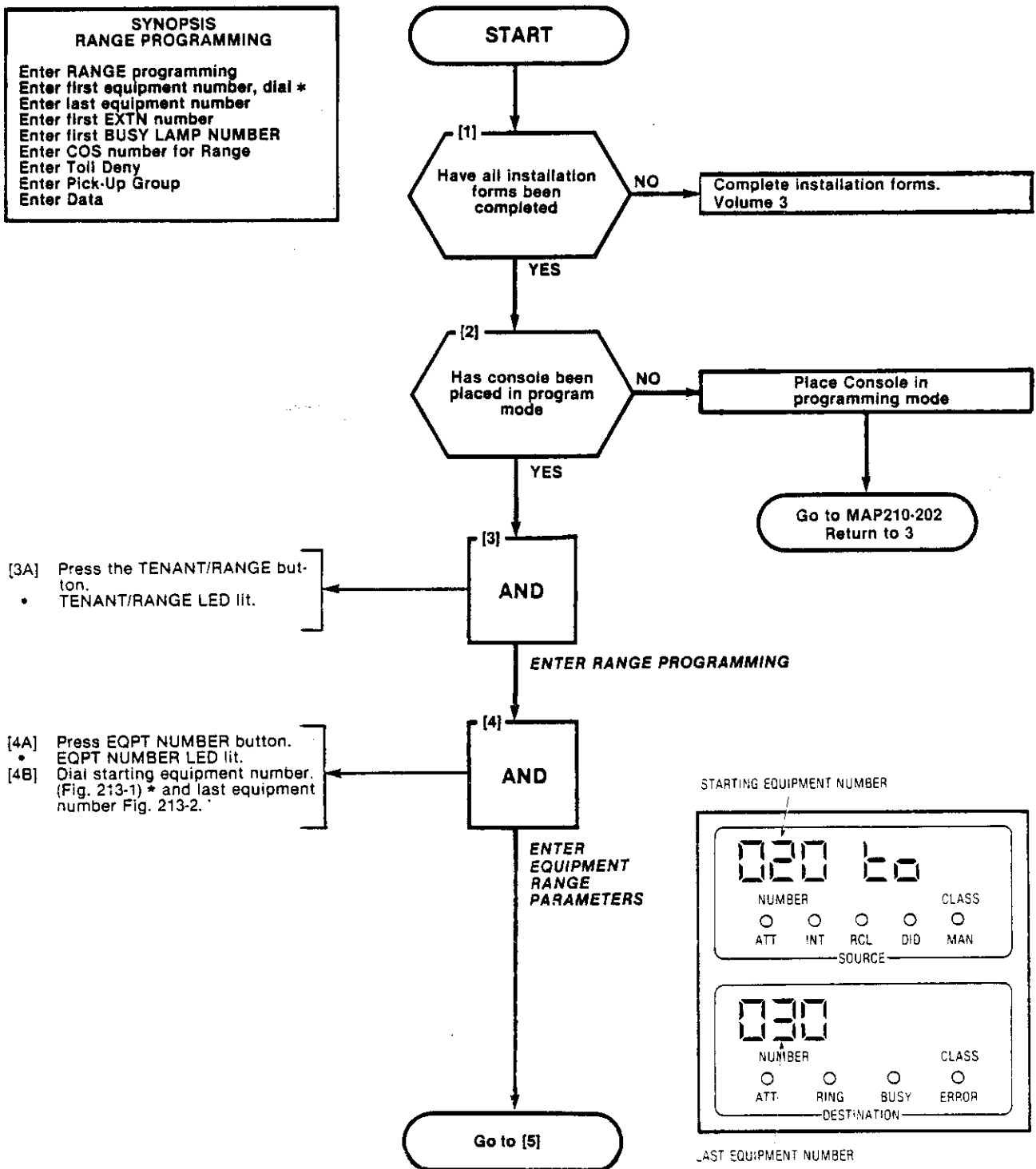
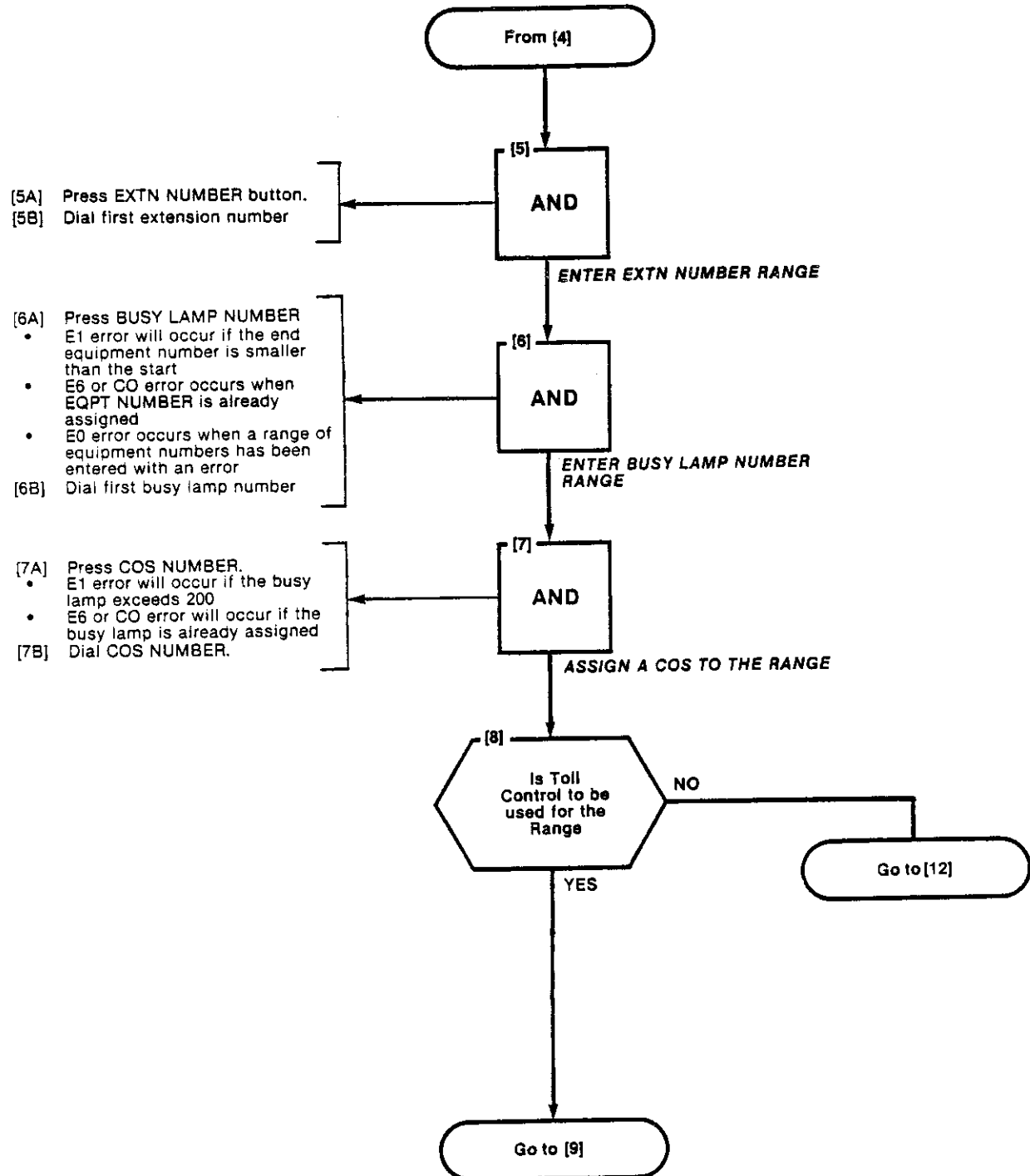


Fig. 213-2

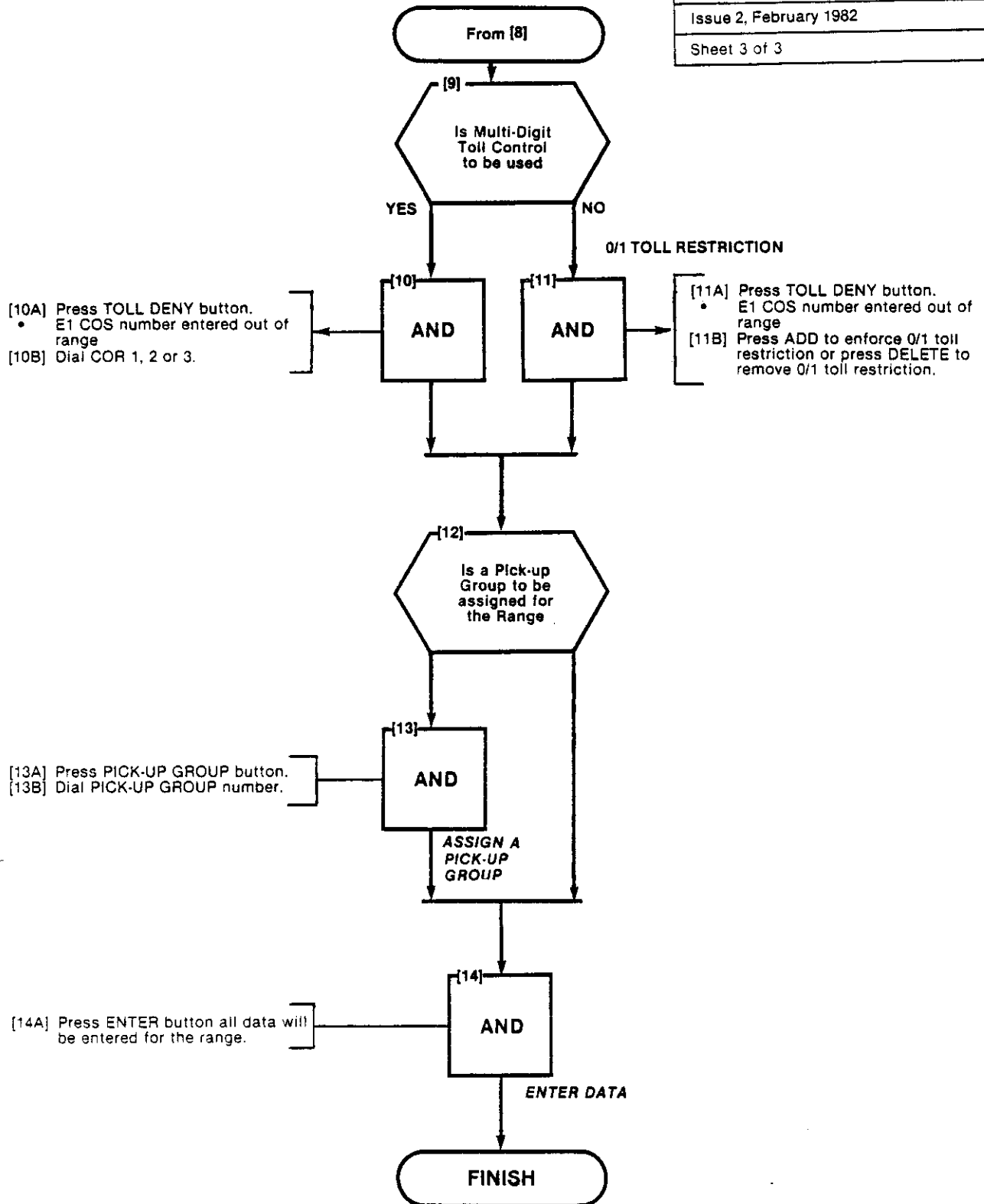
SECTION MITL9105/9110-097-210-NA

RANGE PROGRAMMING FOR EXTENSIONS
MAP210-213
Issue 2, February 1982
Sheet 2 of 3





RANGE PROGRAMMING FOR EXTENSIONS
MAP210-213
Issue 2, February 1982
Sheet 3 of 3





SELECTION OF EXTENDED PROGRAMMING
MAP210-221
Issue 2, February 1982
Sheet 1 of 3

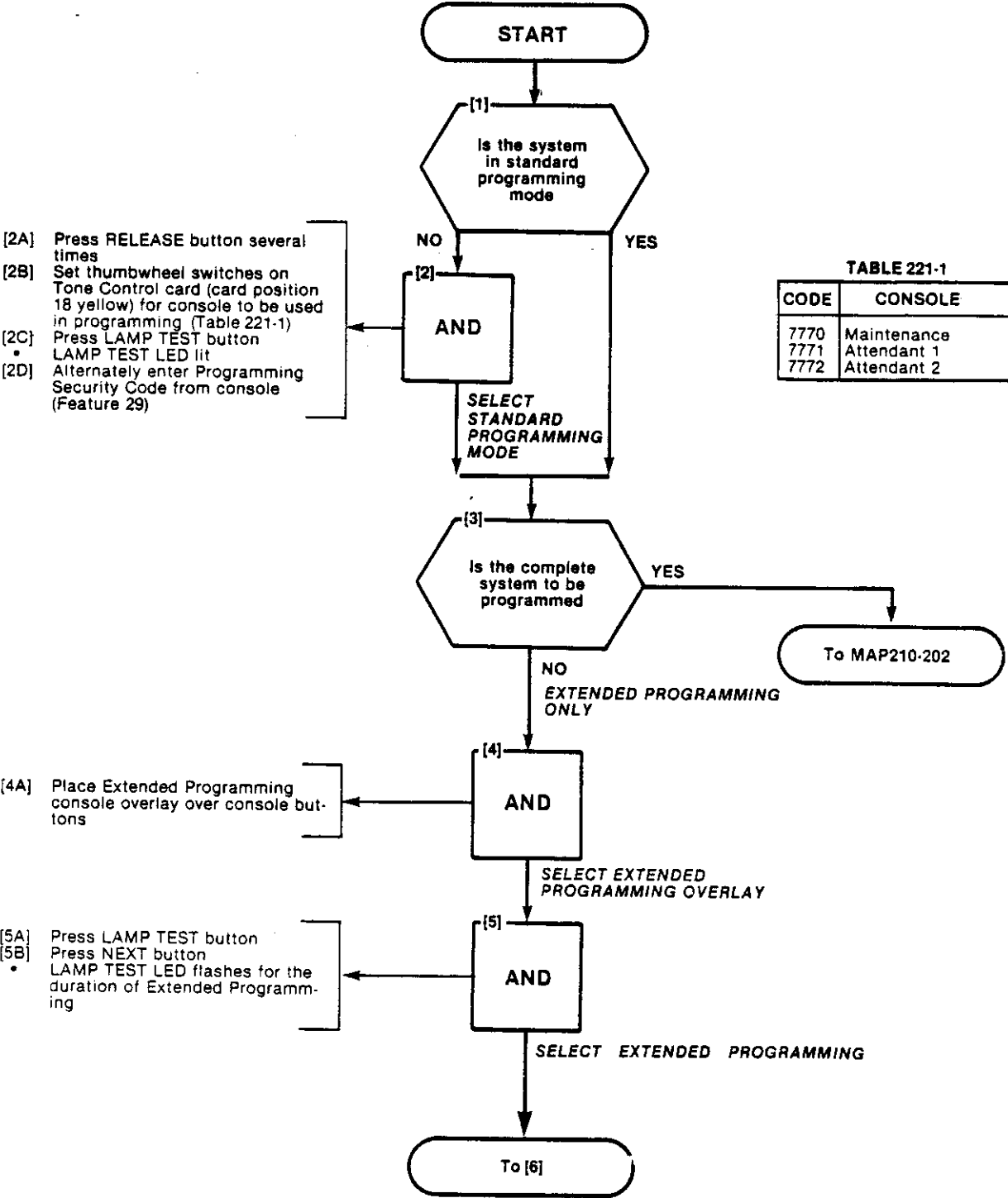


TABLE 221-1

CODE	CONSOLE
7770	Maintenance
7771	Attendant 1
7772	Attendant 2

SECTION MITL9105/9110-097-210-NA

SELECTION OF EXTENDED PROGRAMMING
MAP210-221
Issue 2, February 1982
Sheet 2 of 3

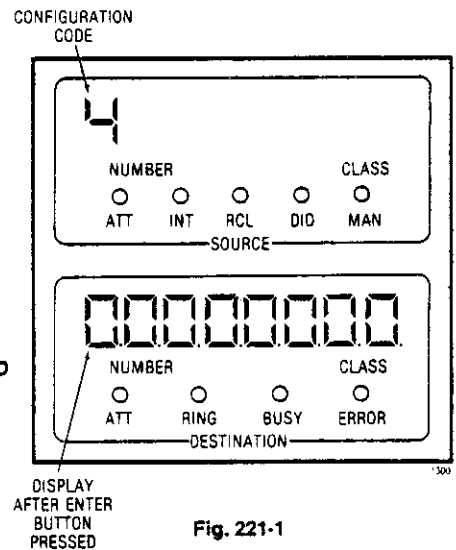
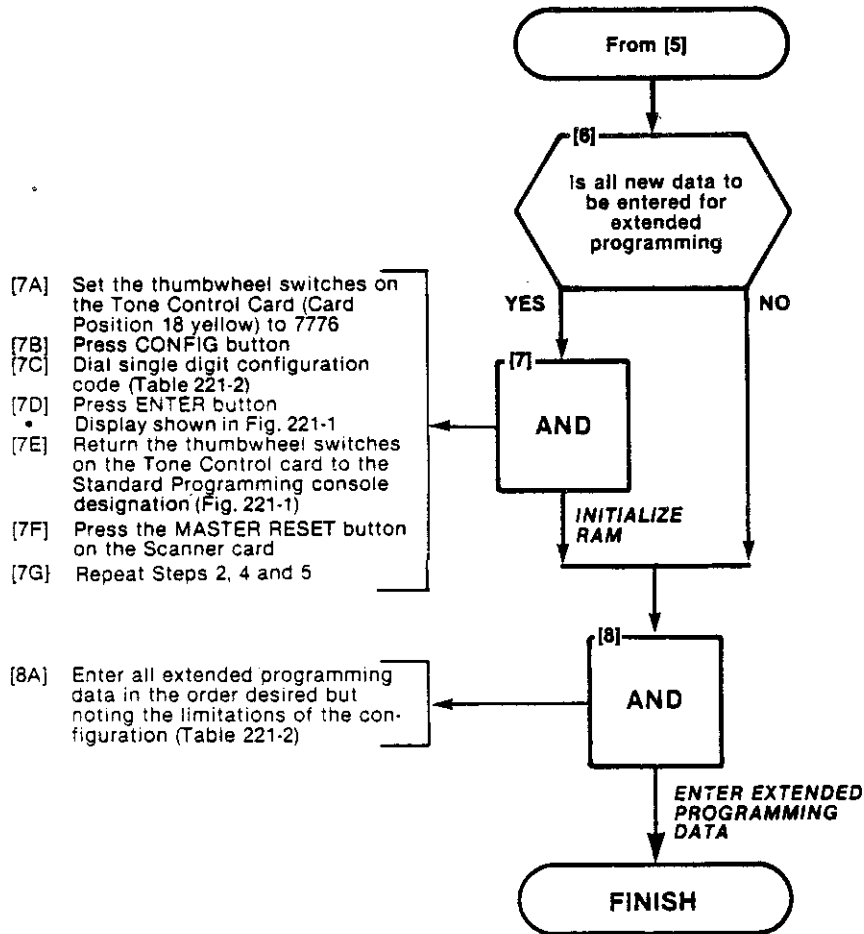


Fig. 221-1

SELECTION OF EXTENDED  
PROGRAMMING

MAP210-221

Issue 2, February 1982

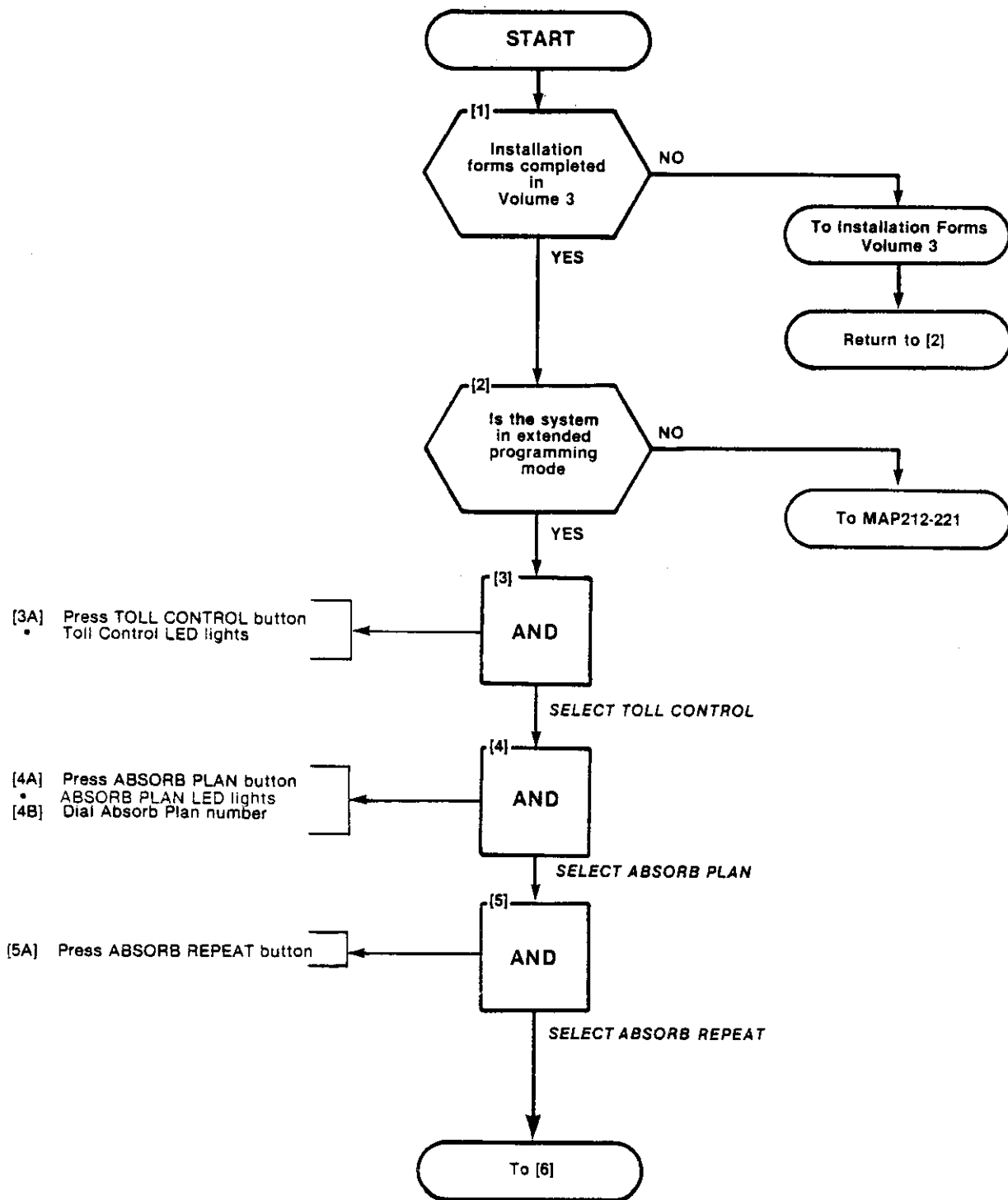
Sheet 3 of 3

TABLE 221-2  
CONFIGURATIONS

CONFIGURATION	WAKE-UP	MULTI DIGIT TOLL CONTROL	SPEED CALL	AUTOMATIC ROUTE SELECTION
1	WU 1	TC 2	—	ARS 1
2	—	TC 2	SC 1	ARS 1
3	—	TC 1	SC 2	ARS 1
4	—	TC 3	—	ARS 1
5	WU 1	TC 1	—	ARS 2
6	—	—	SC 1	ARS 3
7	WU 1	TC 1	SC 1	ARS 1
	WU Automatic Wake-Up	TC 1 Basic TC 2 Standard TC 3 Extended	SC 1 Standard SC 2 Extended	ARS 1 Basic ARS 2 Standard ARS 3 Extended

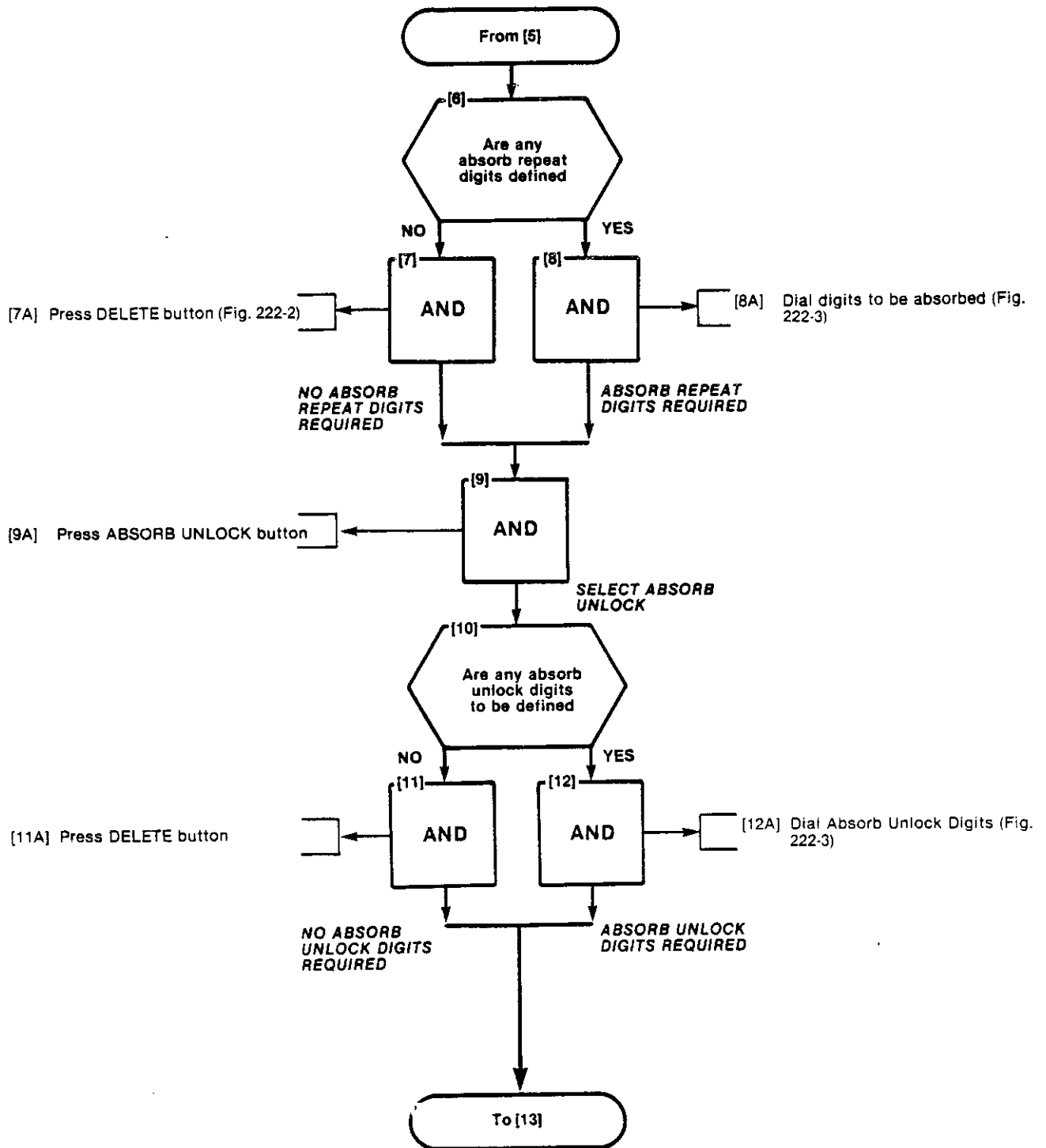


ABSORB PLAN
MAP210-222
Issue 2, February 1982
Sheet 1 of 3



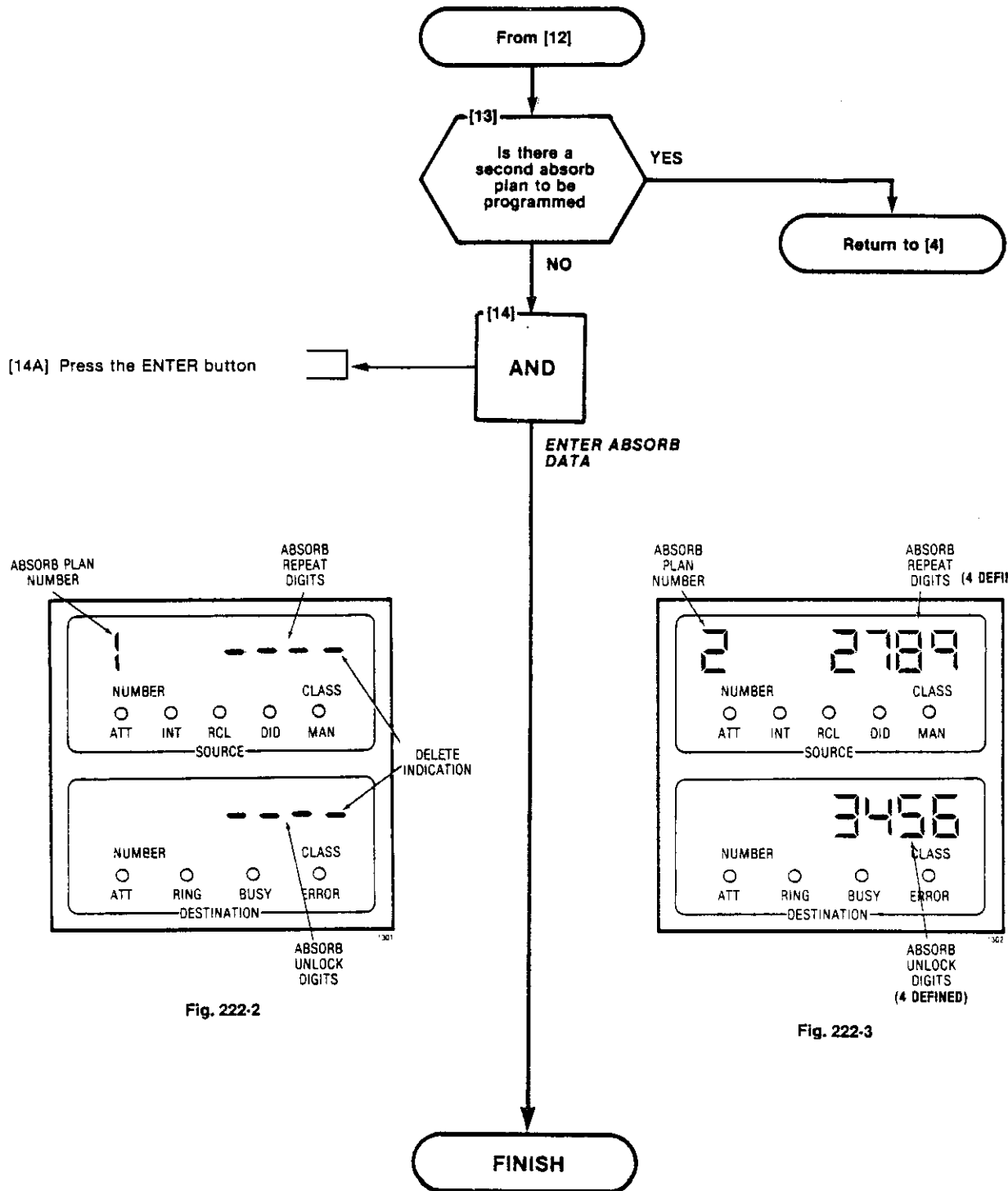
SECTION MITL9105/9110-097-210-NA

ABSORB PLAN
MAP210-222
Issue 2, February 1982
Sheet 2 of 3



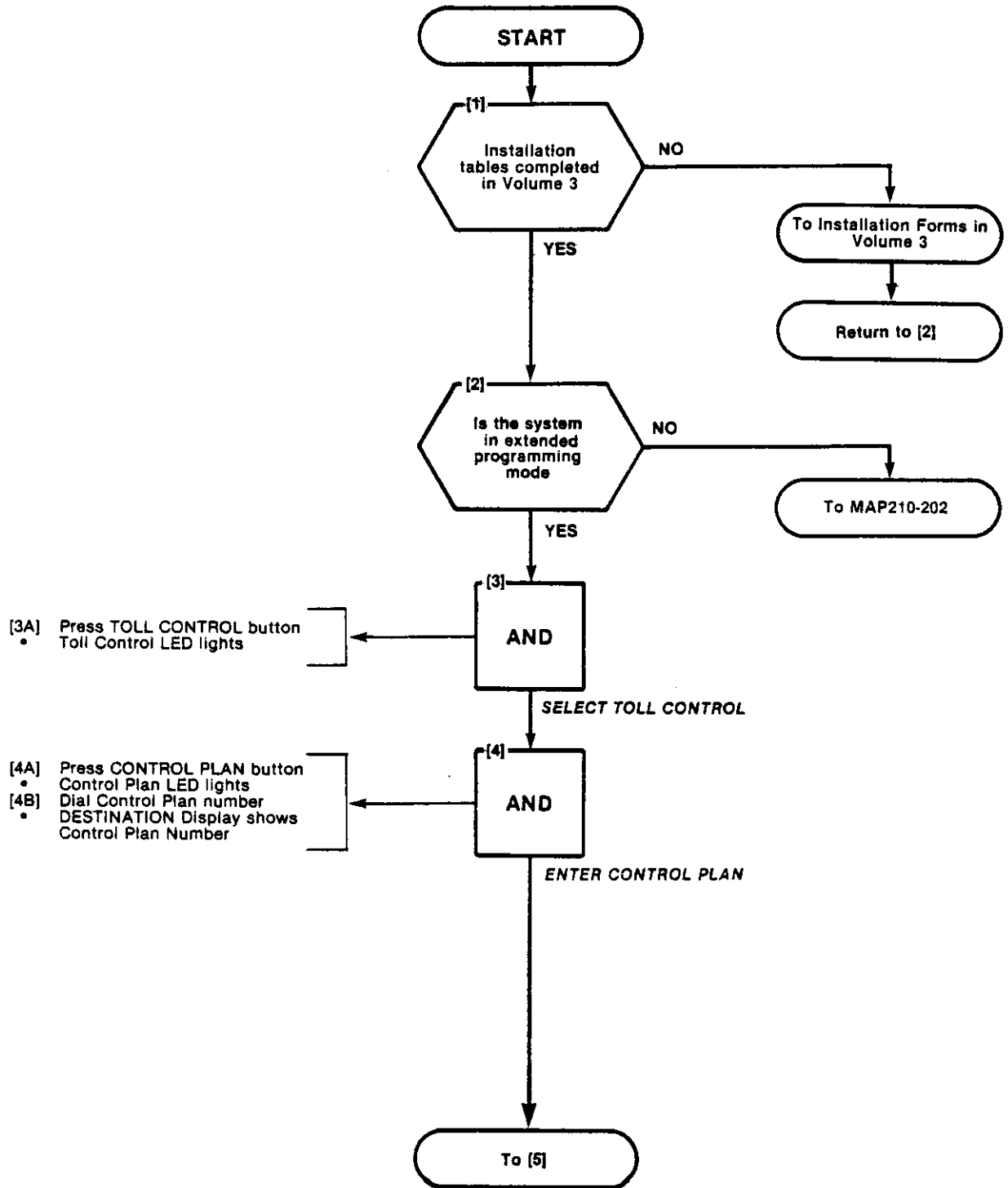


ABSORB PLAN
MAP210-222
Issue 2, February 1982
Sheet 3 of 3



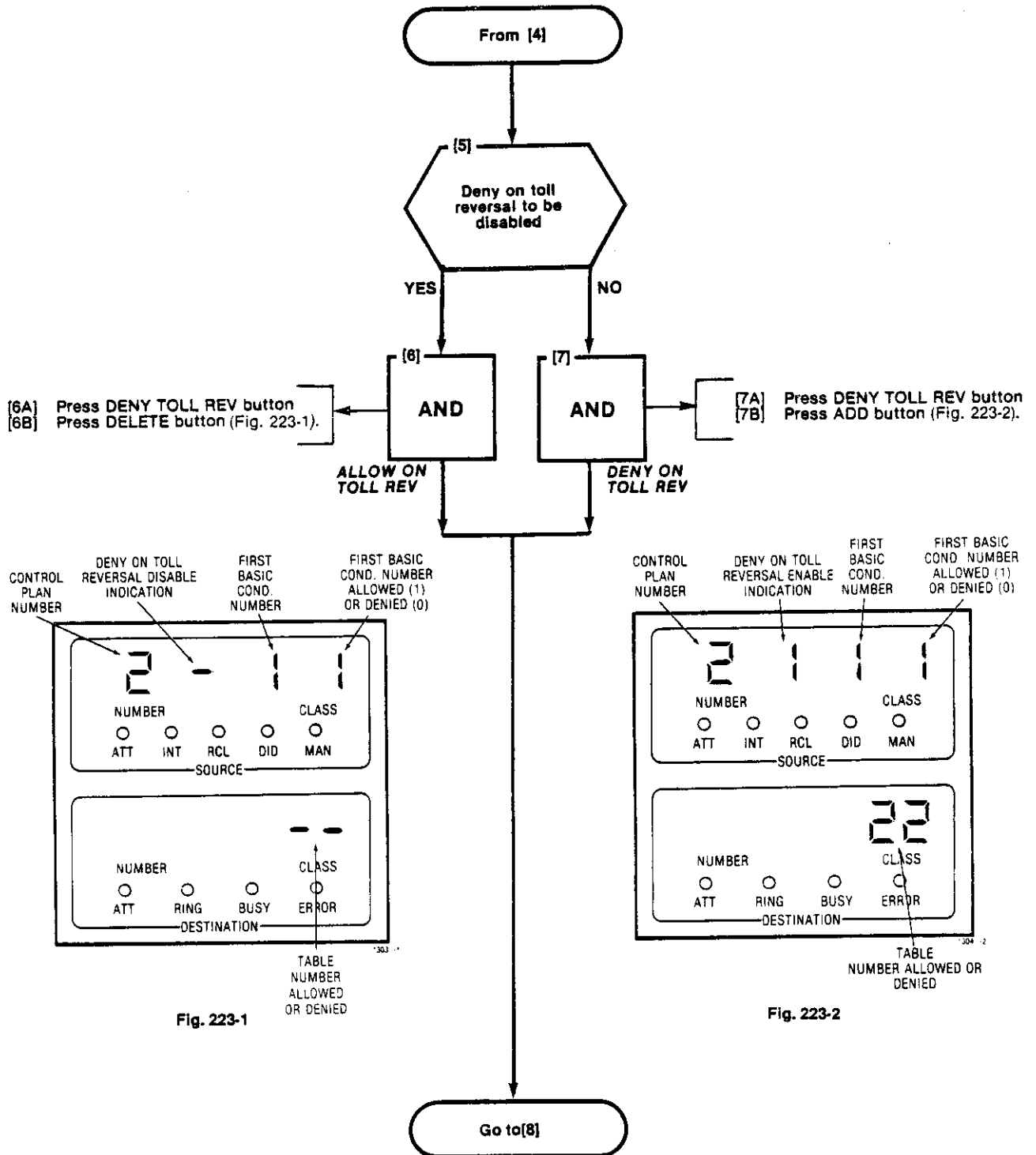


CONTROL PLAN
MAP210-223
Issue 2, February 1982
Sheet 1 of 4

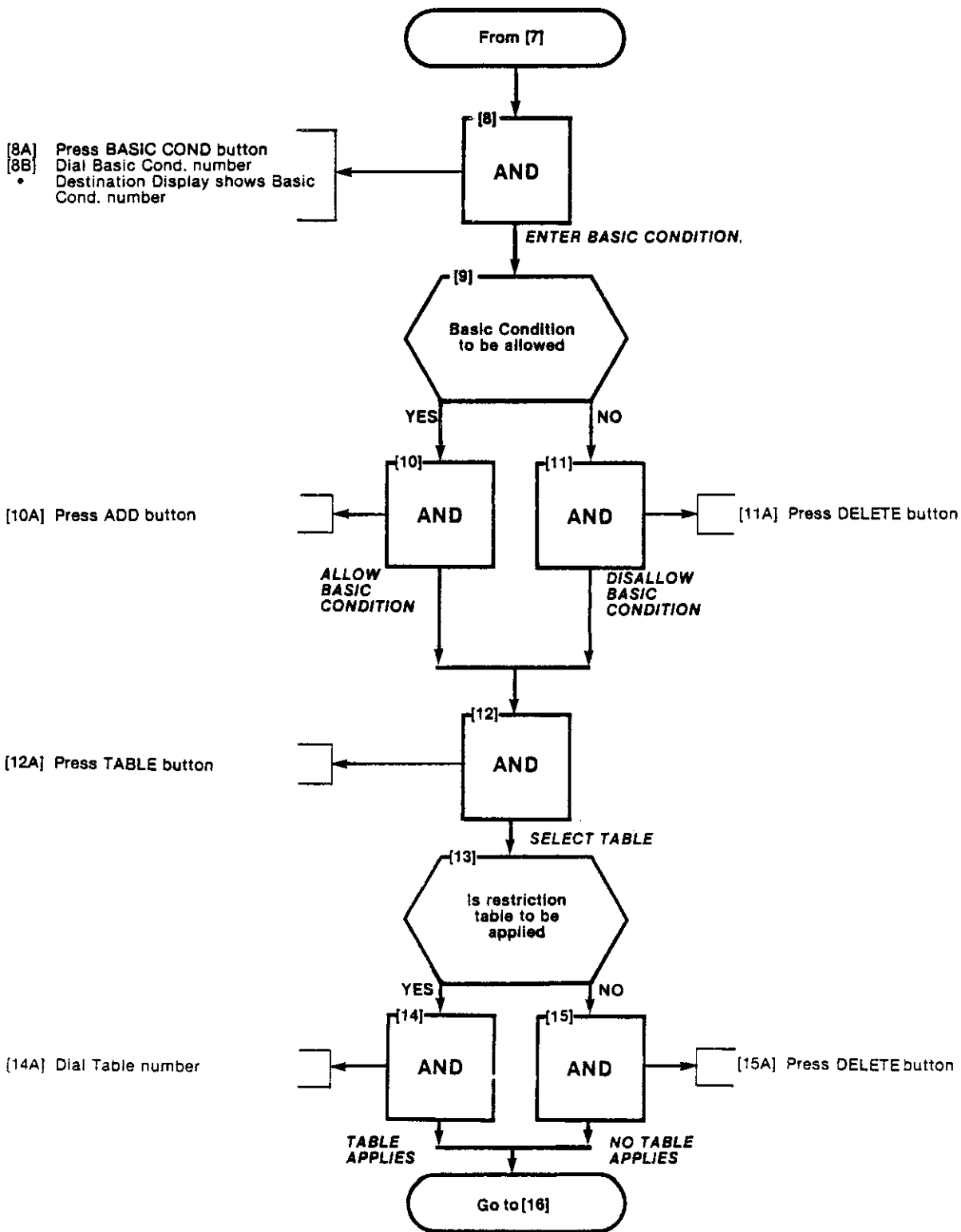


SECTION MITL9105/9110-097-210-NA

CONTROL PLAN
MAP210-223
Issue 2, February 1982
Sheet 2 of 4

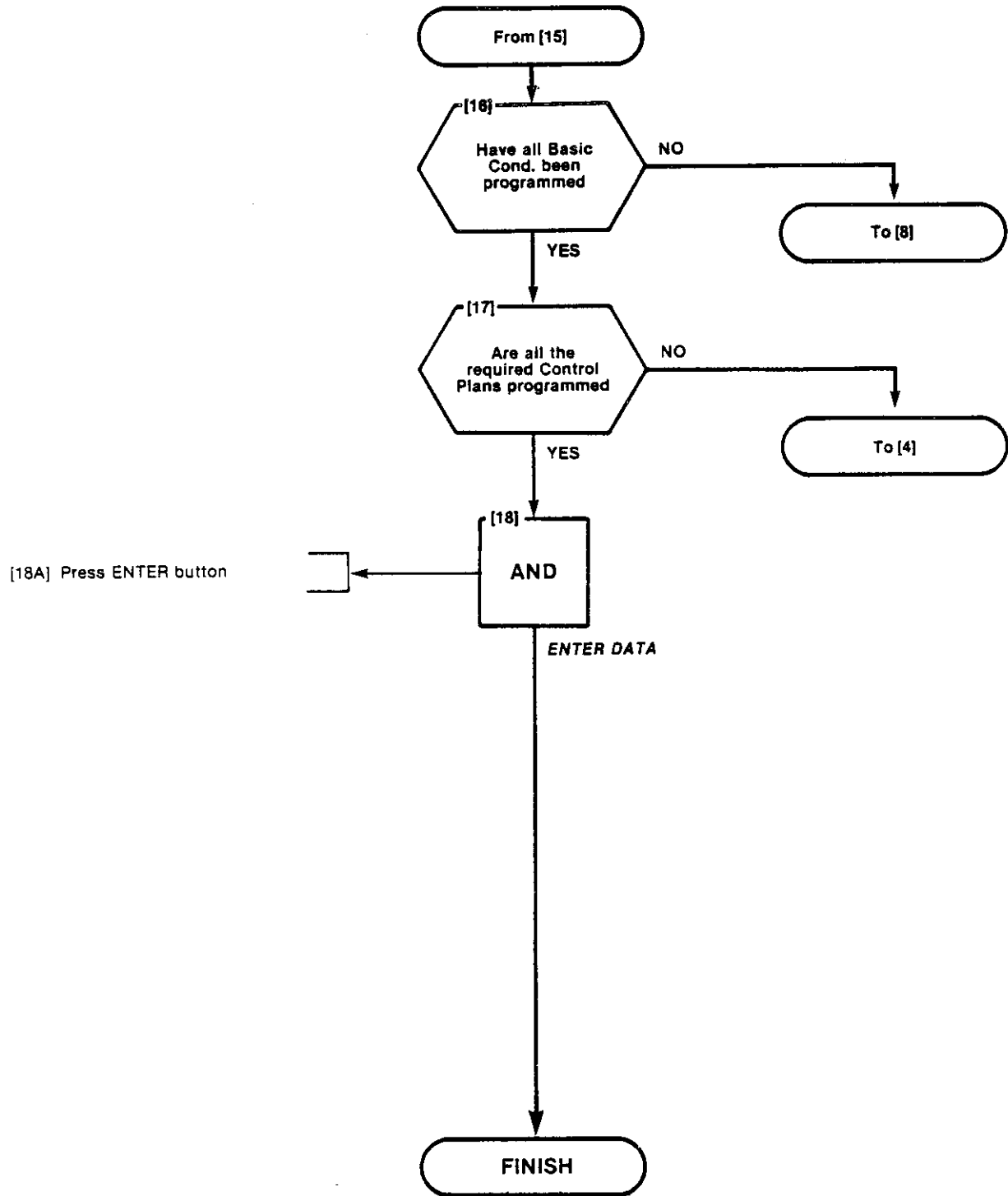


CONTROL PLAN
MAP210-223
Issue 2, February 1982
Sheet 3 of 4

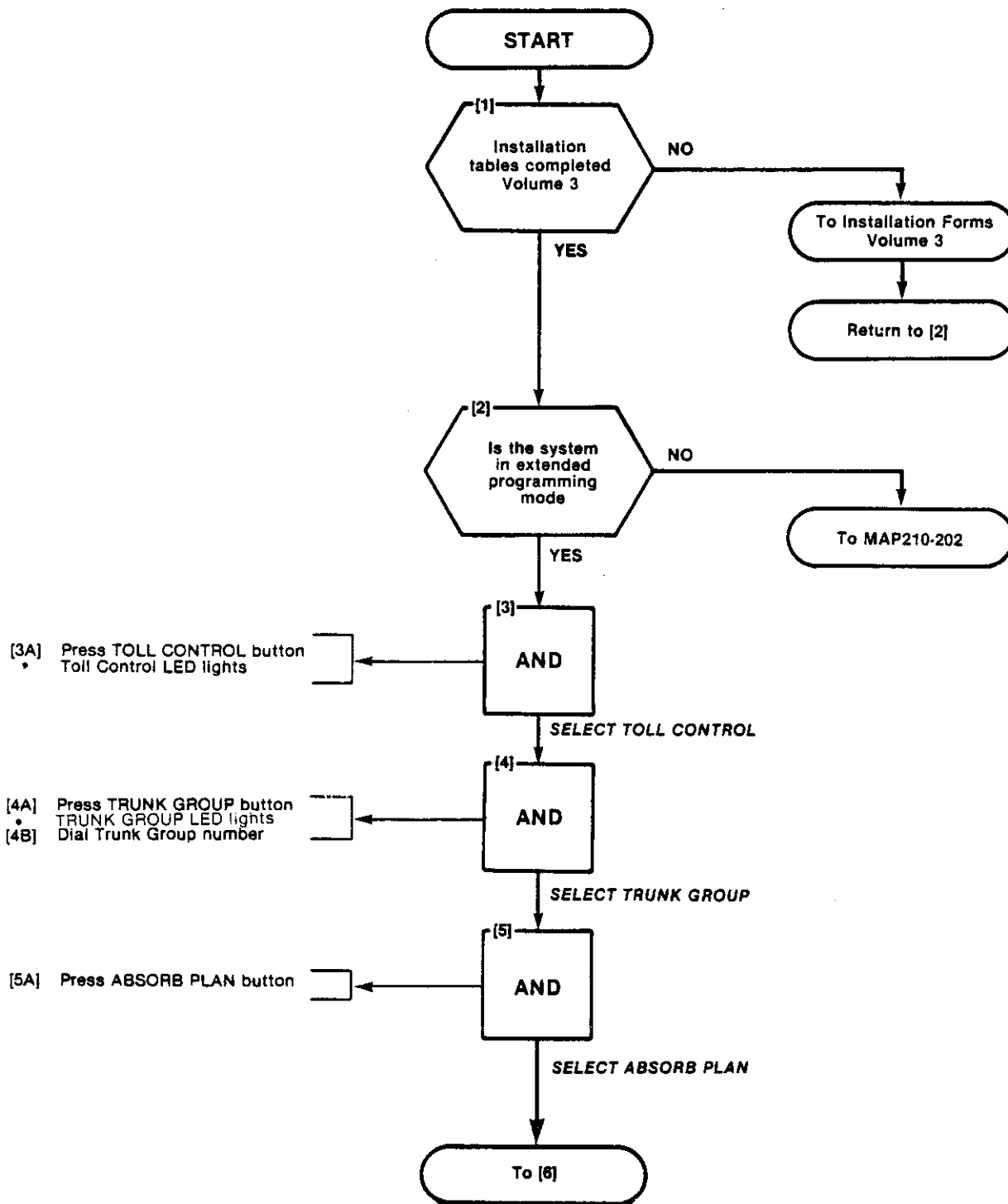


SECTION MITL9105/9110-097-210-NA

CONTROL PLAN
MAP210-223
Issue 2, February 1982
Sheet 4 of 4

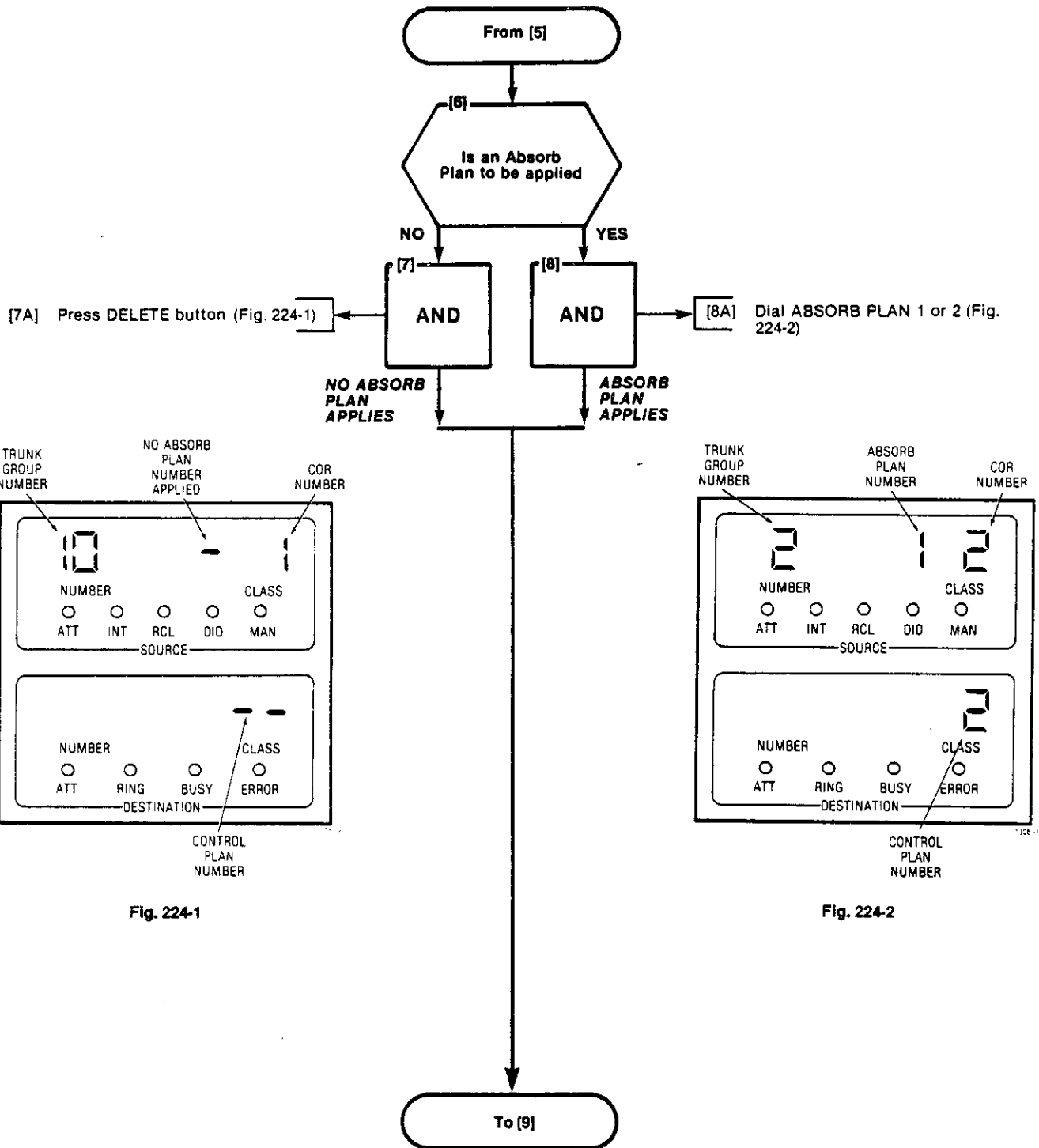


TRUNK GROUP CLASS OF RESTRICTION
MAP210-224
Issue 2, February 1982
Sheet 1 of 3



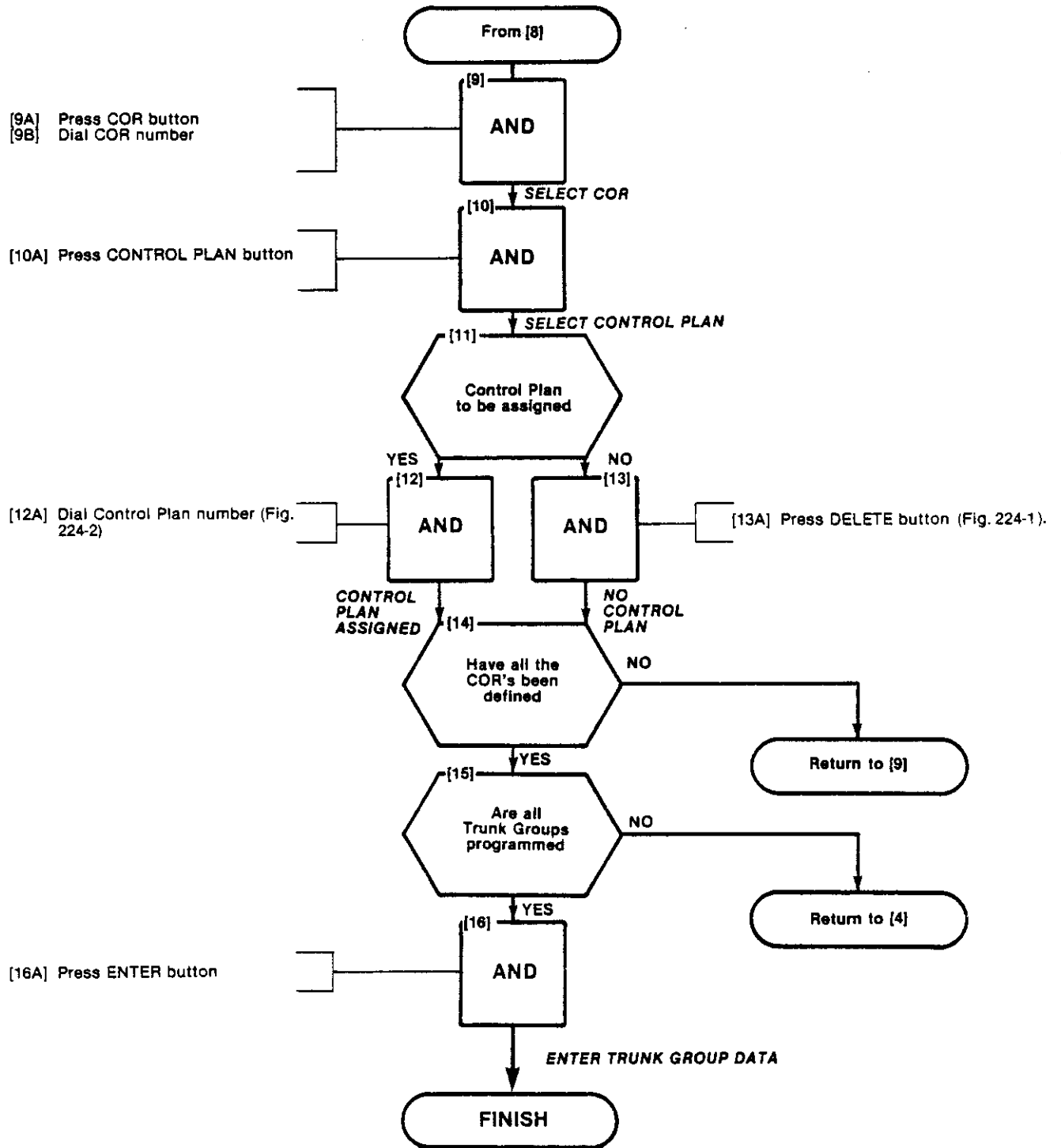
SECTION MITL9105/9110-097-210-NA

TRUNK GROUP CLASS OF RESTRICTION
MAP210-224
Issue 2, February 1982
Sheet 2 of 3



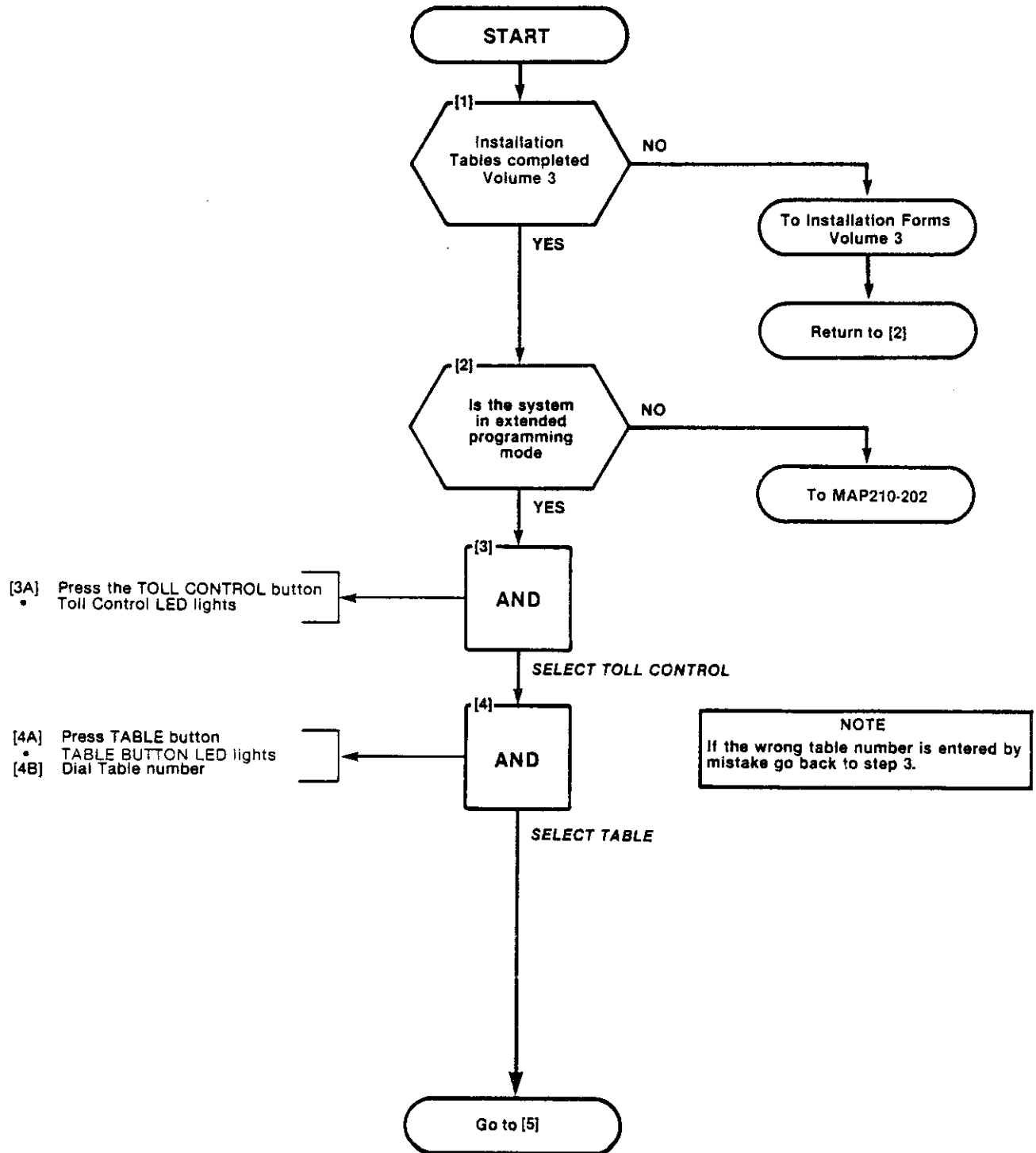


TRUNK GROUP CLASS OF RESTRICTION
MAP210-224
Issue 2, February 1982
Sheet 3 of 3





RESTRICTION TABLES
MAP210-225
Issue 2, February 1982
Sheet 1 of 2



SECTION MITL9105/9110-097-210-NA

RESTRICTION TABLES
MAP210-225
Issue 2, February 1982
Sheet 2 of 2

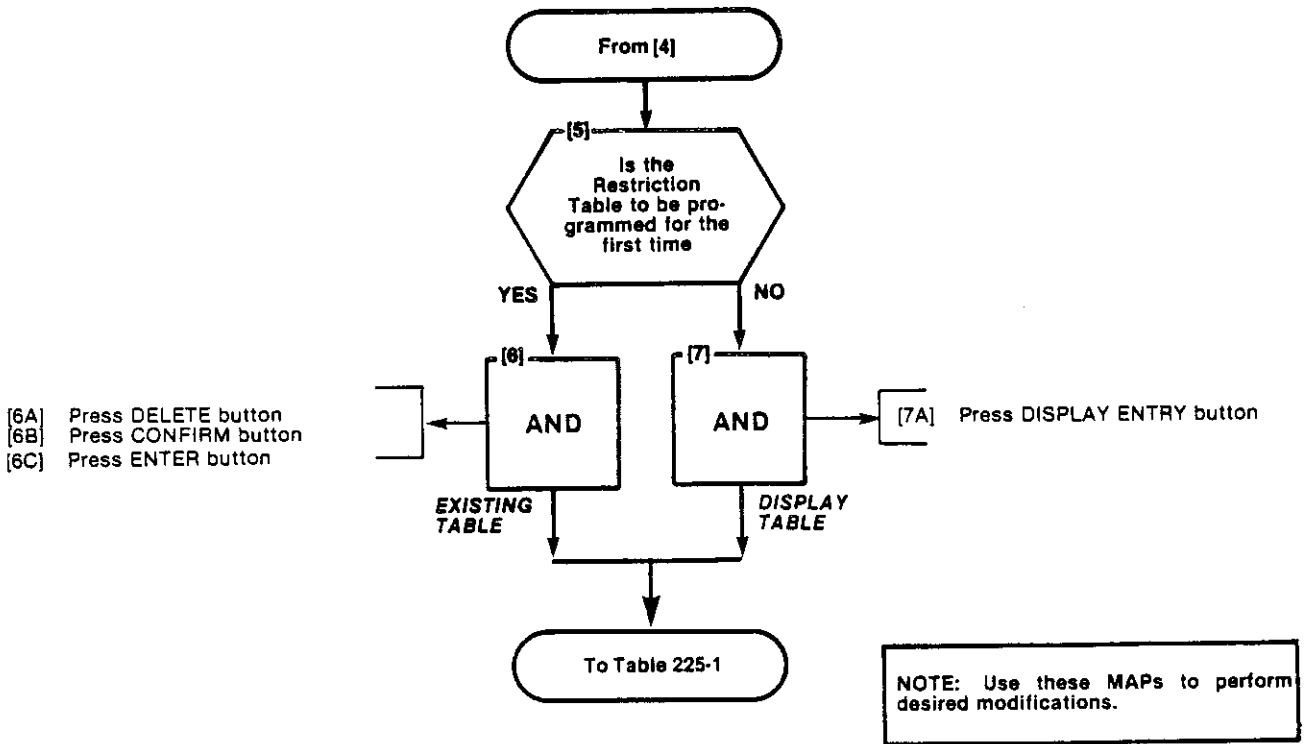
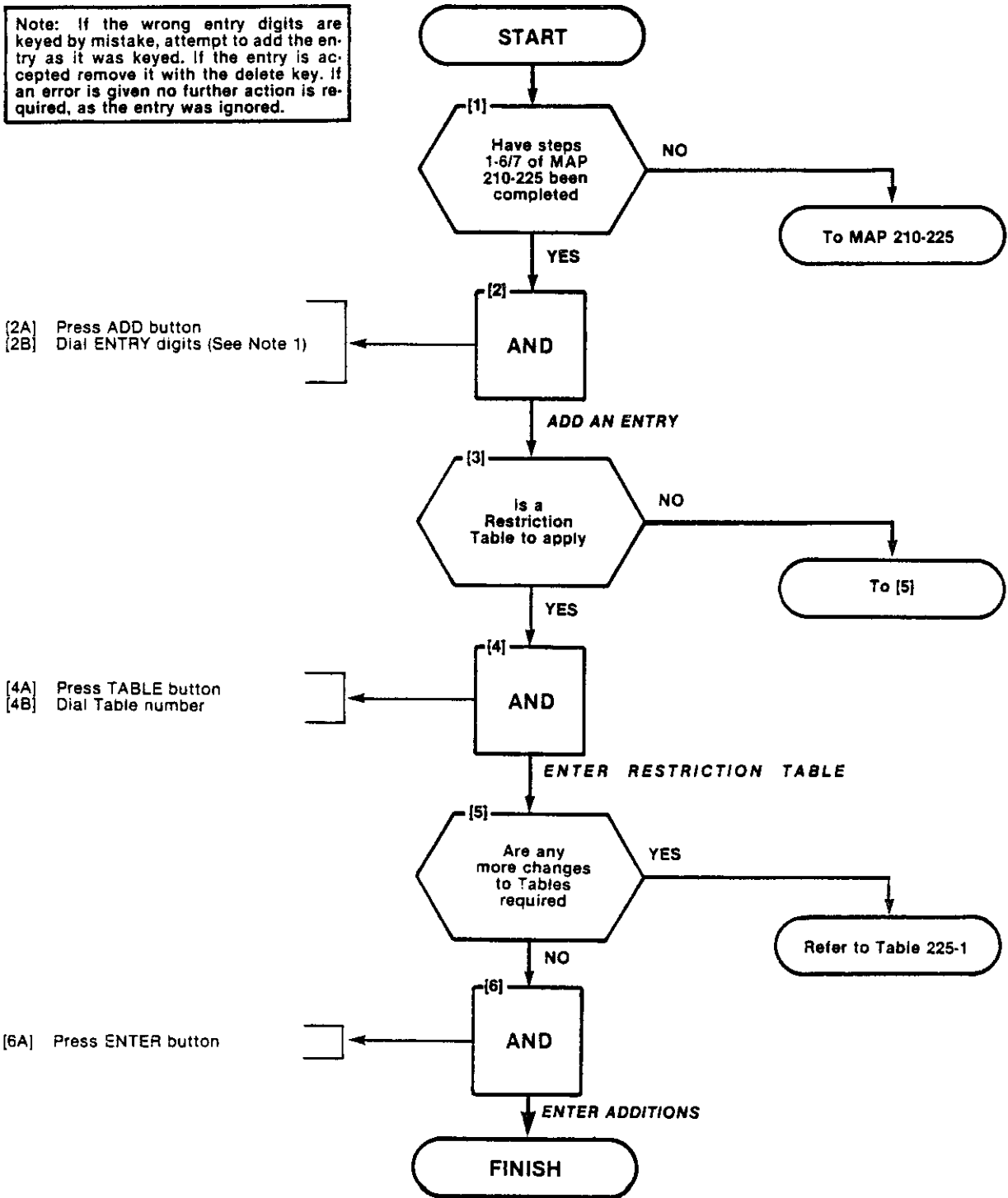


Table 225-1

OPTION	MAP NUMBER
Add an entry	210-226
Display sequential entries	210-227
Search for a specific entry	210-228
Delete entry being displayed	210-229
Terminated Programming	210-274

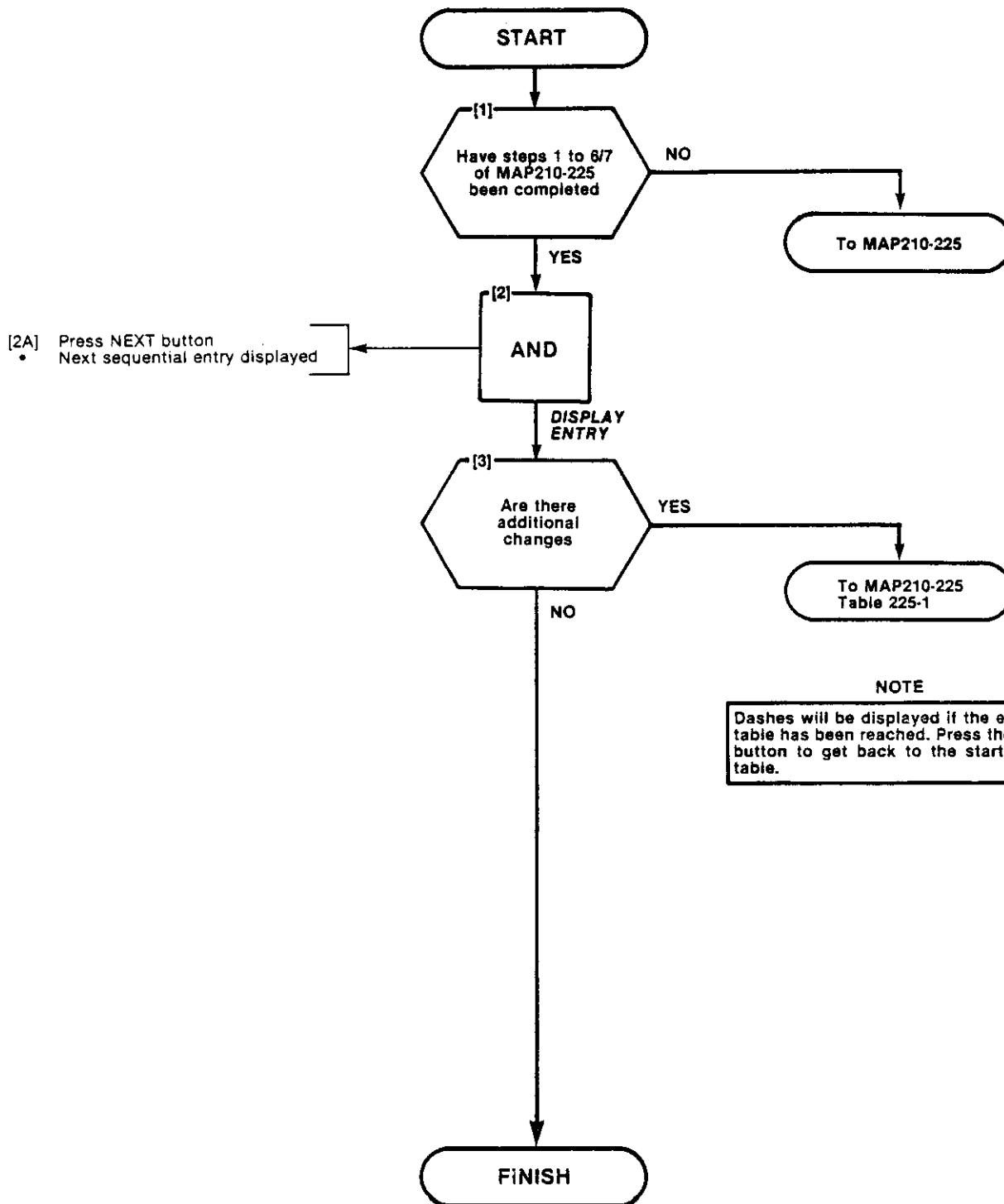
ADD AN ENTRY
MAP210-226
Issue 2, February 1982
Sheet 1 of 1

Note: If the wrong entry digits are keyed by mistake, attempt to add the entry as it was keyed. If the entry is accepted remove it with the delete key. If an error is given no further action is required, as the entry was ignored.





DISPLAYING SEQUENTIAL ENTRIES
MAP210-227
Issue 2, February 1982
Sheet 1 of 1

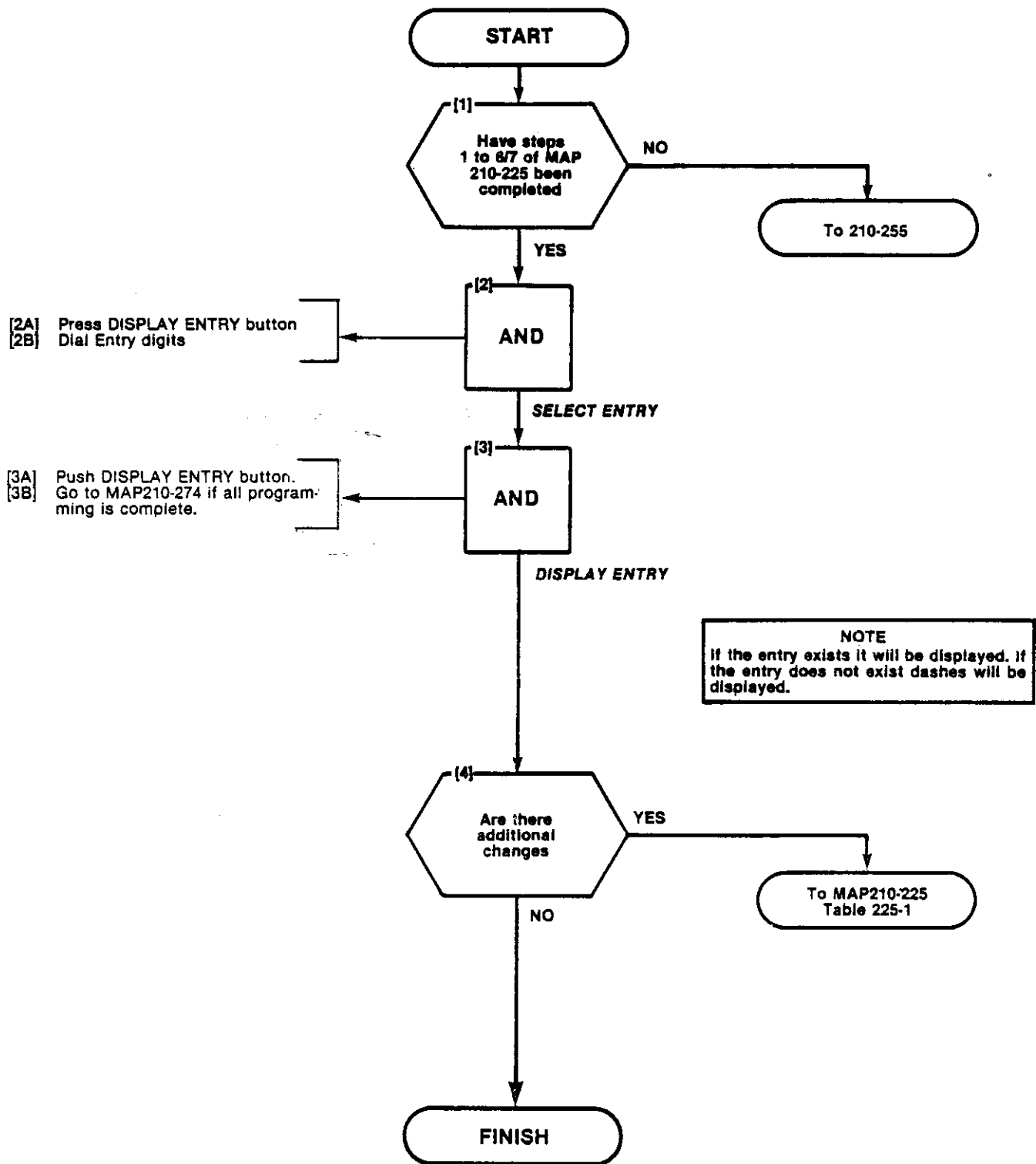


**NOTE**  
Dashes will be displayed if the end of a table has been reached. Press the NEXT button to get back to the start of the table.



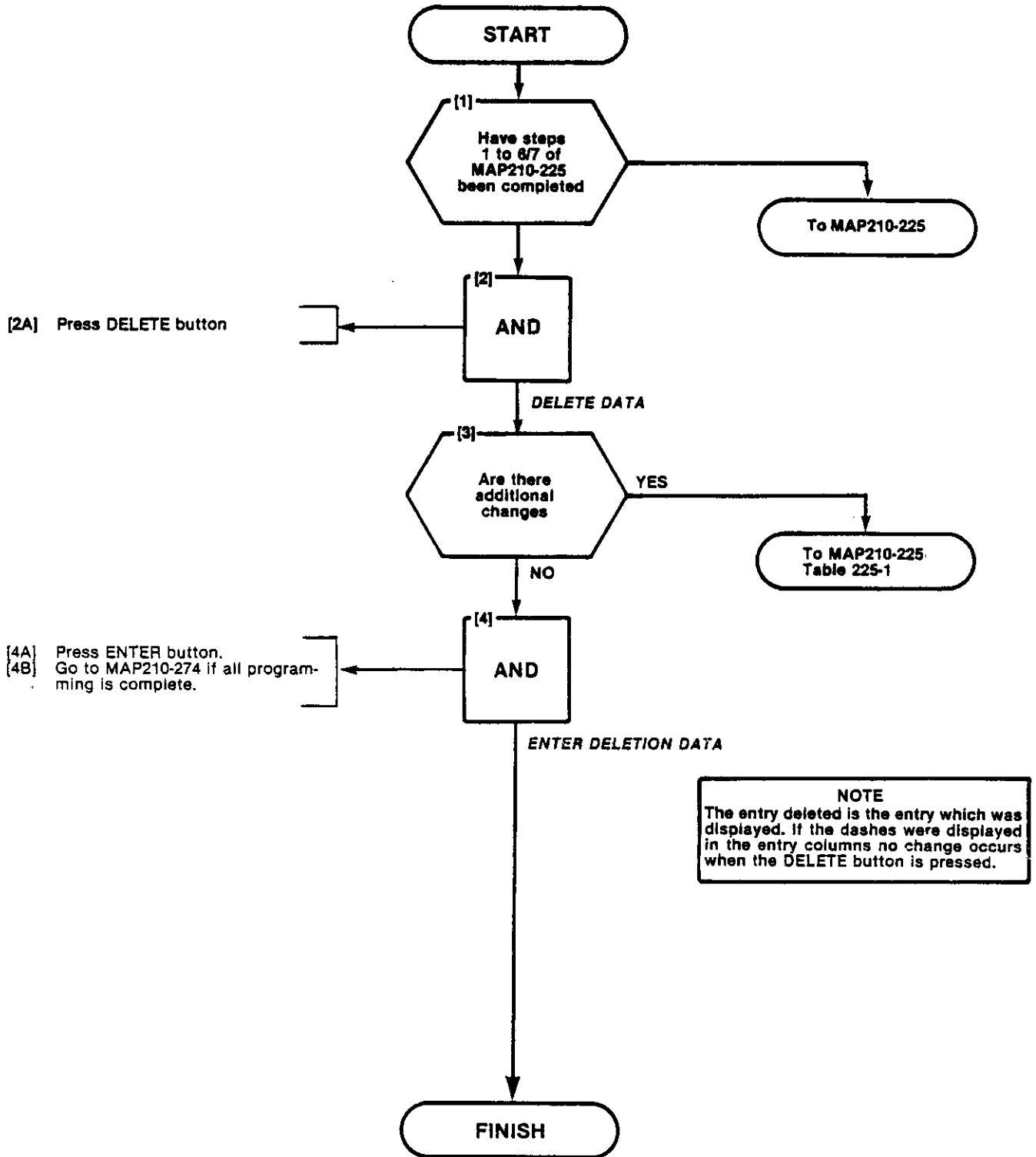


SEARCH FOR AN ENTRY
MAP210-228
Issue 2, February 1982
Sheet 1 of 1





DELETE AN ENTRY
MAP210-229
Issue 2, February 1982
Sheet 1 of 1





PROGRAMMING PERSONAL TABLES
MAP210-242
Issue 2, February 1982
Sheet 1 of 4

**NOTES**

1. Prior to making programming entries on this MAP, Form SC-2 must have been completed. The completed form is used in conjunction with the relevant steps noted in this MAP.

2. After digit entries are made (e.g. Step (4)), the bell may ring and an error code may appear in the DESTINATION display when the key in the next sequence is pressed. In this event refer to Tables 242-1 or 242-2, and repeat the sequence, i.e. the relevant function key and its digit entries, in order to correct the previous entry. Fig. 242-2 shows a typical error code entry.

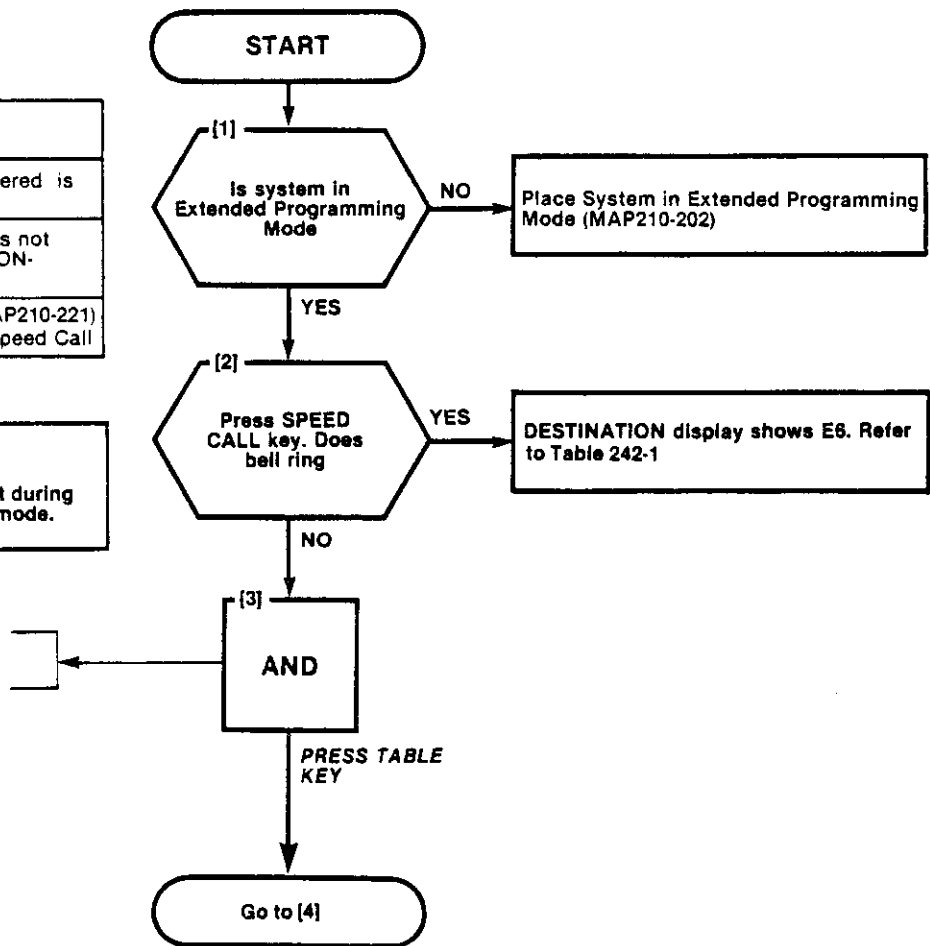
TABLE 242-1

ERROR CODE	DESCRIPTION
E1	The equipment number entered is not that for a station
E3	The table number entered is not valid for the current size CONFIGURATION
E6	The CONFIGURATION (MAP210-221) entered does not include Speed Call

**NOTE**

The SPEED CALL LED remains lit during programming in the Speed Call mode.

[3A] Press TABLE key



PROGRAMMING PERSONAL TABLES
MAP210-242
Issue 2, February 1982
Sheet 2 of 4

- [4A] Enter Table number required (See Form SC-2)
- DESTINATION display shows number entered (Fig. 242-1)
  - When a subsequent key operation occurs the number is transferred to the SOURCE display and three hyphens appear as shown in Fig. 242-1)

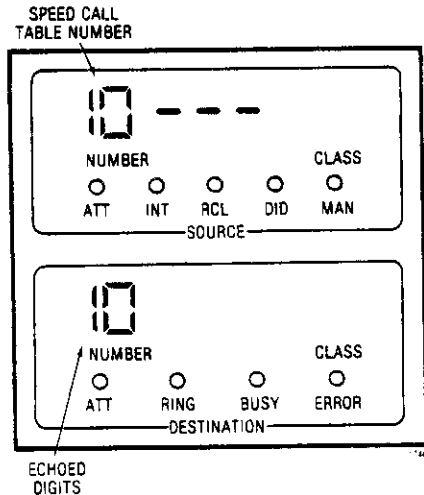


Fig. 242-1 Typical Entry Displays

- [7A] Press EQPT NUMBER key
- EQPT NUMBER LED is lit

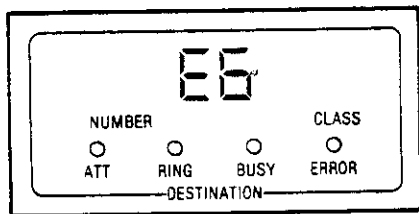
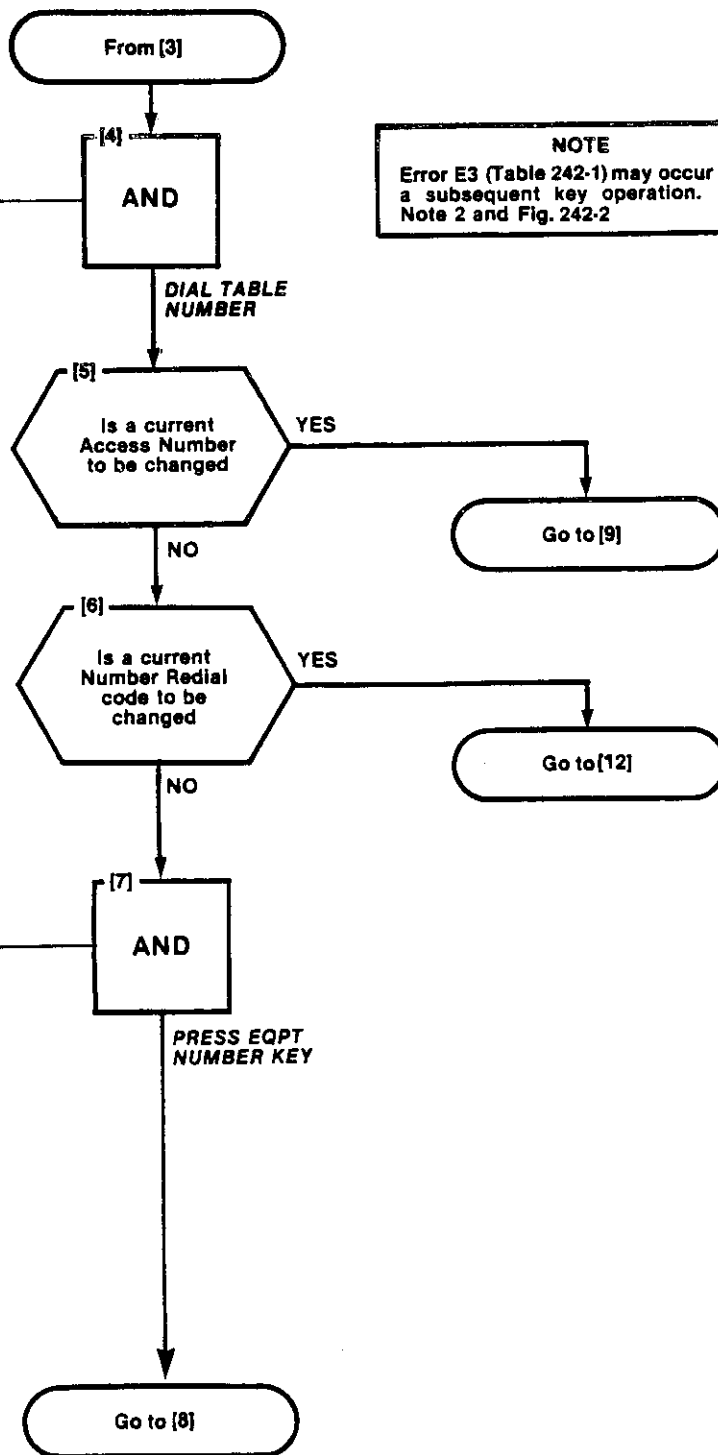
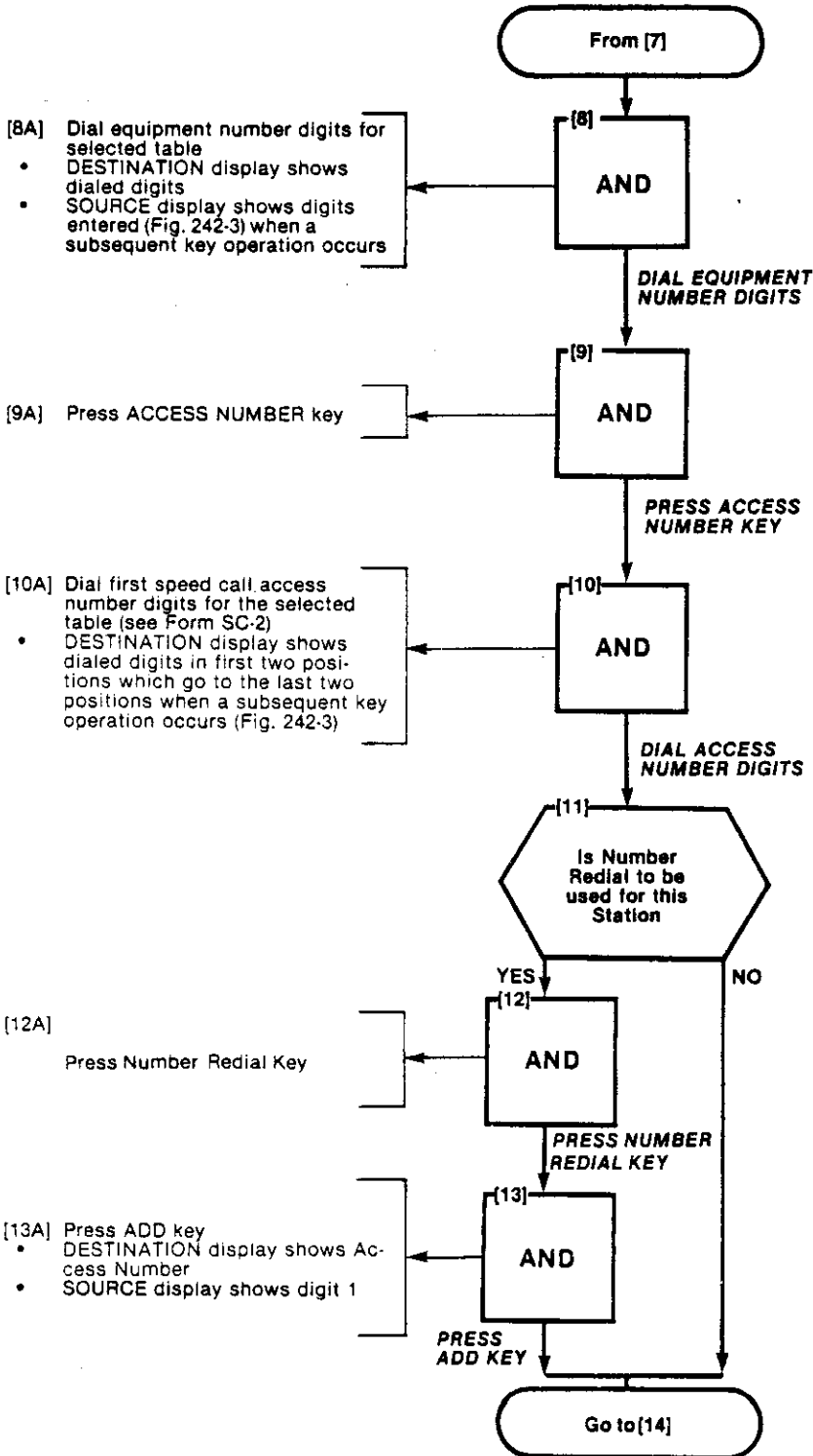


Fig. 242-2 Typical Error Code Display

**NOTE**  
Error E3 (Table 242-1) may occur after a subsequent key operation. See Note 2 and Fig. 242-2



PROGRAMMING PERSONAL TABLES
MAP210-242
Issue 2, February 1982
Sheet 3 of 4



**NOTE**  
Error E1 (Table 242-1) may occur after a subsequent key operation. See Note 2 and Fig. 242-2.

**NOTE**  
Error E1 (Table 242-1), or Error E5 (Table 242-2) may occur after Step [10]. See Note 2 and Fig. 242-2

Table 242-2

ERROR CODE	DESCRIPTION
E4	Indicates attempt to enter access number (Step 10) for a common-use table
E4	Indicates attempt made to allocate number redial digits in a common-use table (Step 12)
E5	Indicates number redial already exists for another table (Step 13) assigned to the same equipment
E5	Indicates access number (Step 10) already exists for another table assigned to the equipment

**NOTE**  
Error E5 (Table 242-3) may occur after Step (13). See Note 2 and Fig. 242-2

SECTION MITL9105/9110-097-210-NA

PROGRAMMING PERSONAL TABLES
MAP210-242
Issue 2, February 1982
Sheet 4 of 4

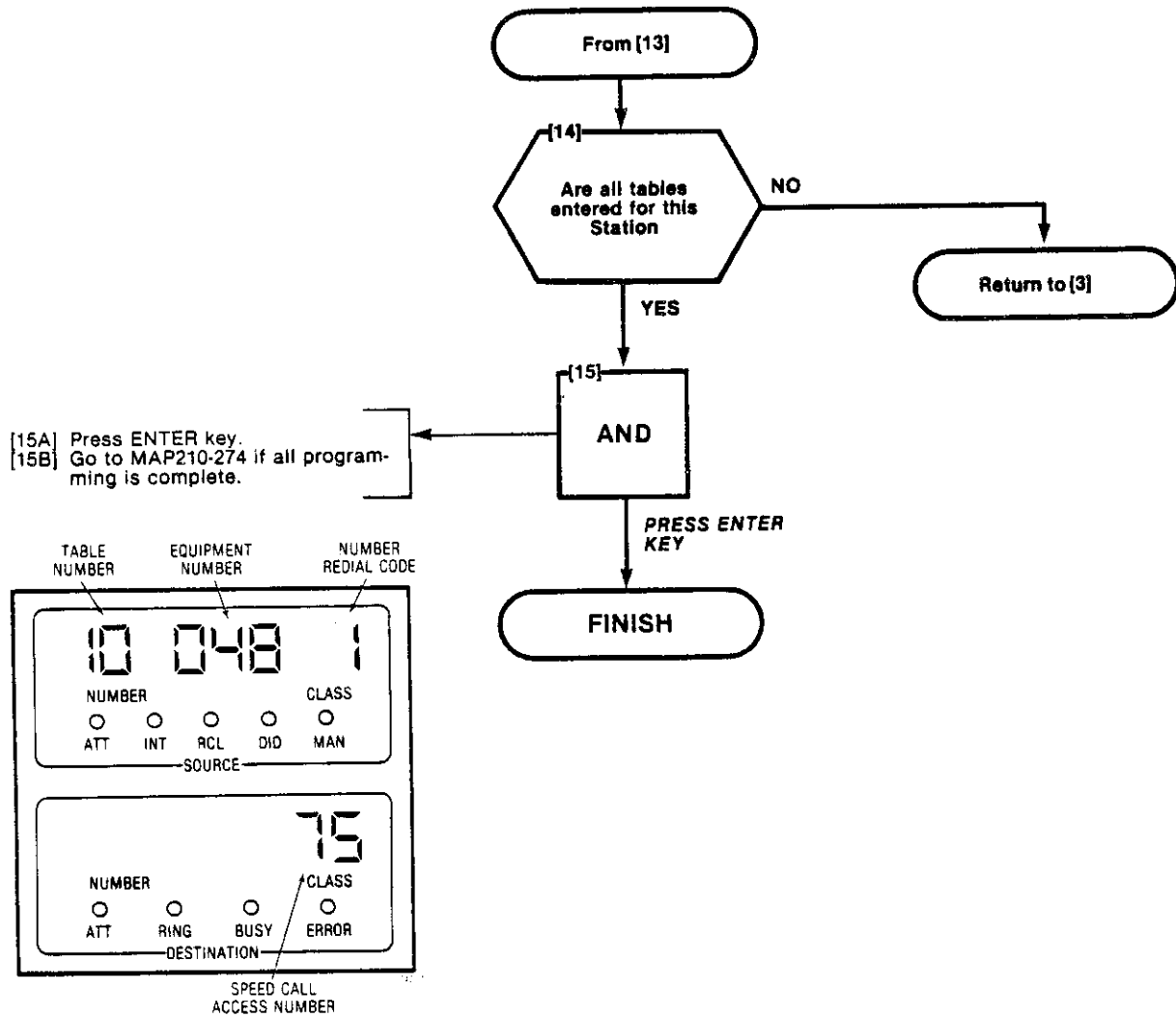


Fig. 242-3 Completed Entries Display



CONVERT TABLE FROM PERSONAL TO COMMON-USE
MAP210-243
Issue 2, February 1982
Sheet 1 of 2

COMMON-USE TABLES DO NOT REQUIRE PROGRAMMING. THIS MAP IS THE PROCEDURE USED TO CONVERT A PERSONAL TABLE TO A COMM-USE TABLE.

**NOTES**

1. Prior to making programming entries on this MAP, Form SC-2 must have been completed. The completed form is used in conjunction with the relevant steps noted in this MAP.

2. After digit entries are made (e.g. Step (4)), the bell may ring and an error code may appear in the DESTINATION display when the key in the next sequence is pressed. In this event refer to Table 243-1, and repeat the sequence, i.e. the relevant function key and its digit entries, in order to correct the previous entry. Fig. 243-2 shows a typical error code entry.

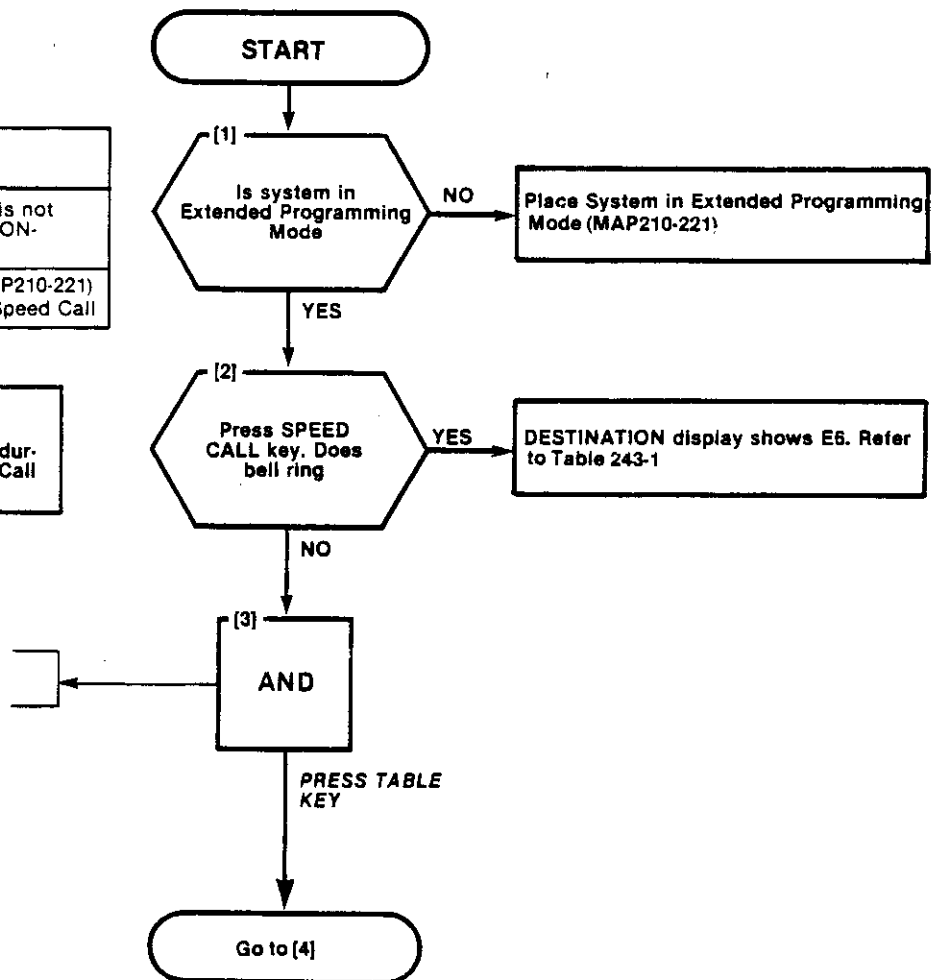
TABLE 243-1

ERROR CODE	DESCRIPTION
E3	The table number entered is not valid for the current size CONFIGURATION
E6	The CONFIGURATION (MAP210-221) entered does not include Speed Call

**NOTE**

The SPEED CALL LED remains lit during programming in the Speed Call Mode.

[3A] Press TABLE key



SECTION MITL9105/9110-097-210-NA

CONVERT TABLE FROM PERSONAL TO COMMON-USE
MAP210-243
Issue 2, February 1982
Sheet 2 of 2

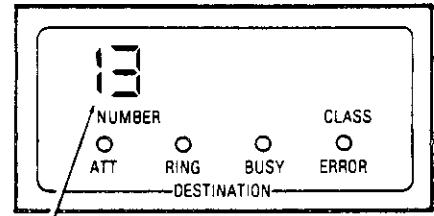
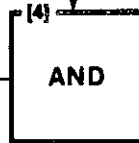


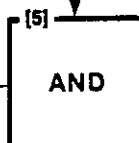
Fig. 243-1 Table Number Display

**NOTE**  
Error E3 (Table 003-1) may occur after Step (4). See Note 2 and Fig. 243-3

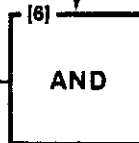
[4A] Enter Table number required (See Form SC-2)  
• DESTINATION display shows number entered (Fig. 243-1).



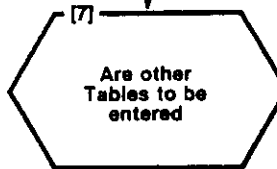
DIAL TABLE NUMBER



PRESS EQPT NUMBER KEY



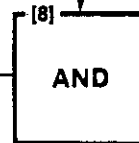
PRESS DELETE KEY



YES



NO



PRESS ENTER KEY



[5A] Press EQPT NUMBER key  
• SOURCE display shows the data associated with the table (Fig. 243-1)  
• DESTINATION display shows the first access number of the table, and the table number (Step 4) disappears

[6A] Press DELETE key  
• SOURCE display shows Table number (Fig. 243-4), and three hyphens (indicating table is now common-use)

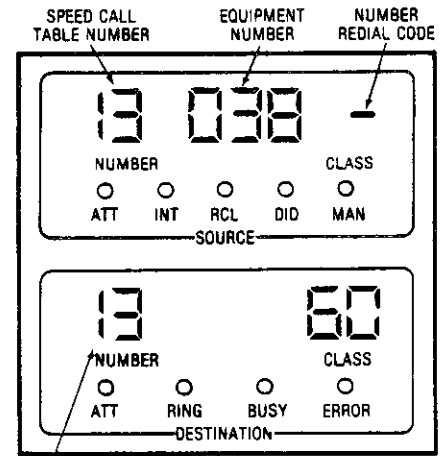


Fig. 243-2 Typical Entry Displays

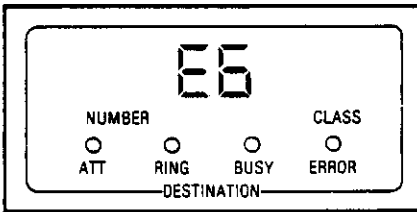


Fig. 243-3 Typical Error Code Display

[8A] Press ENTER key  
[8B] Go to Map 210-274 if all programming is complete

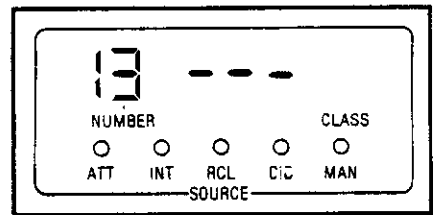


Fig. 243-4 Completed Entry Display

CODE TABLE QUANTITY SELECTION OR CHANGE
MAP210-250
Issue 2, February 1982
Sheet 1 of 1

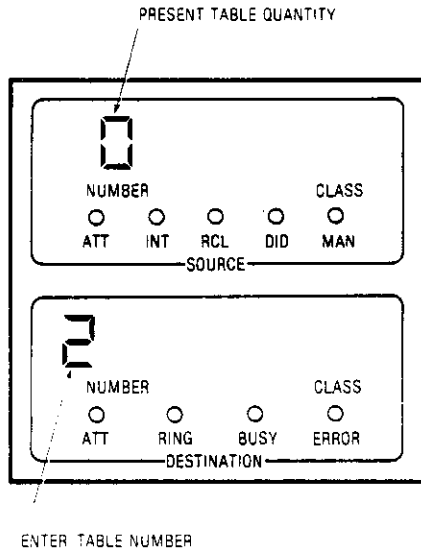


Fig. 250-1

- [3A] Select Extended Programming Overlay with Automatic Route Selection.
- [3B] Press ARS button. ARS LED lit.

- [4A] Press TABLE QUANT.
- [4B] Dial Table quantity digits (TABLE 205-1)(Fig. 250-1).
- [4C] Press Enter.

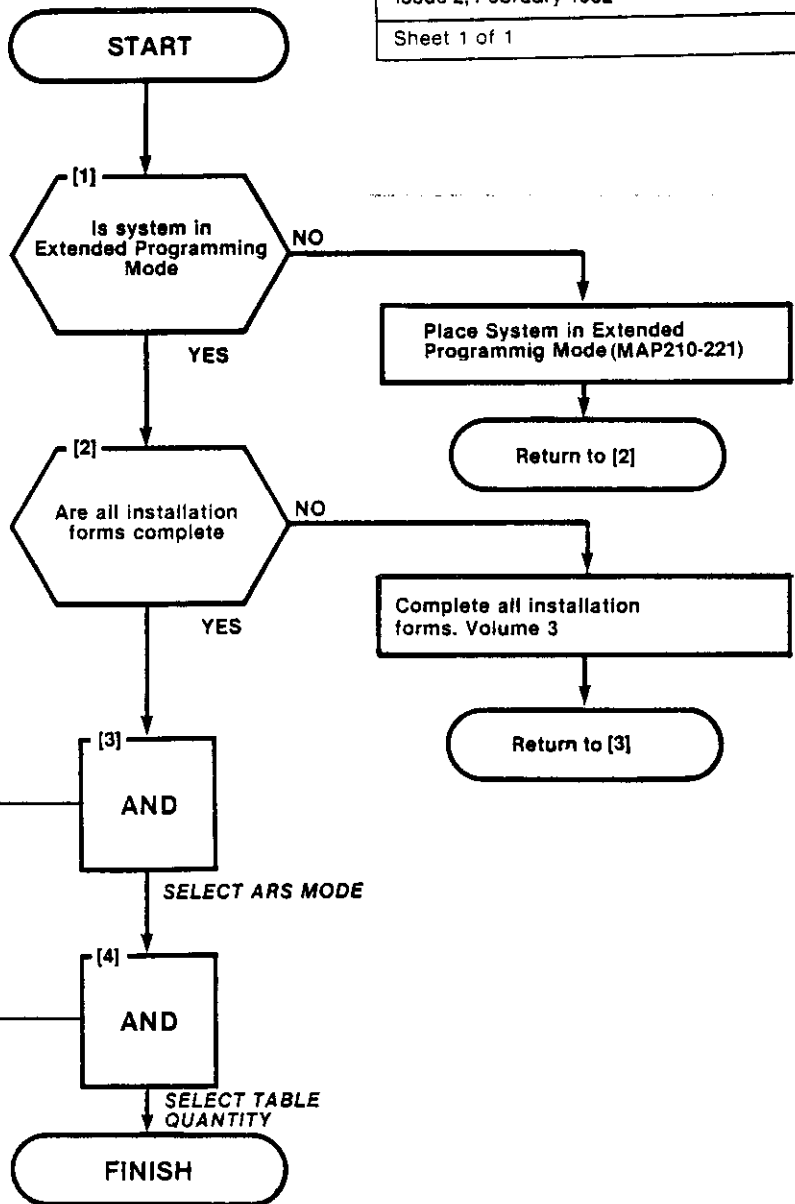


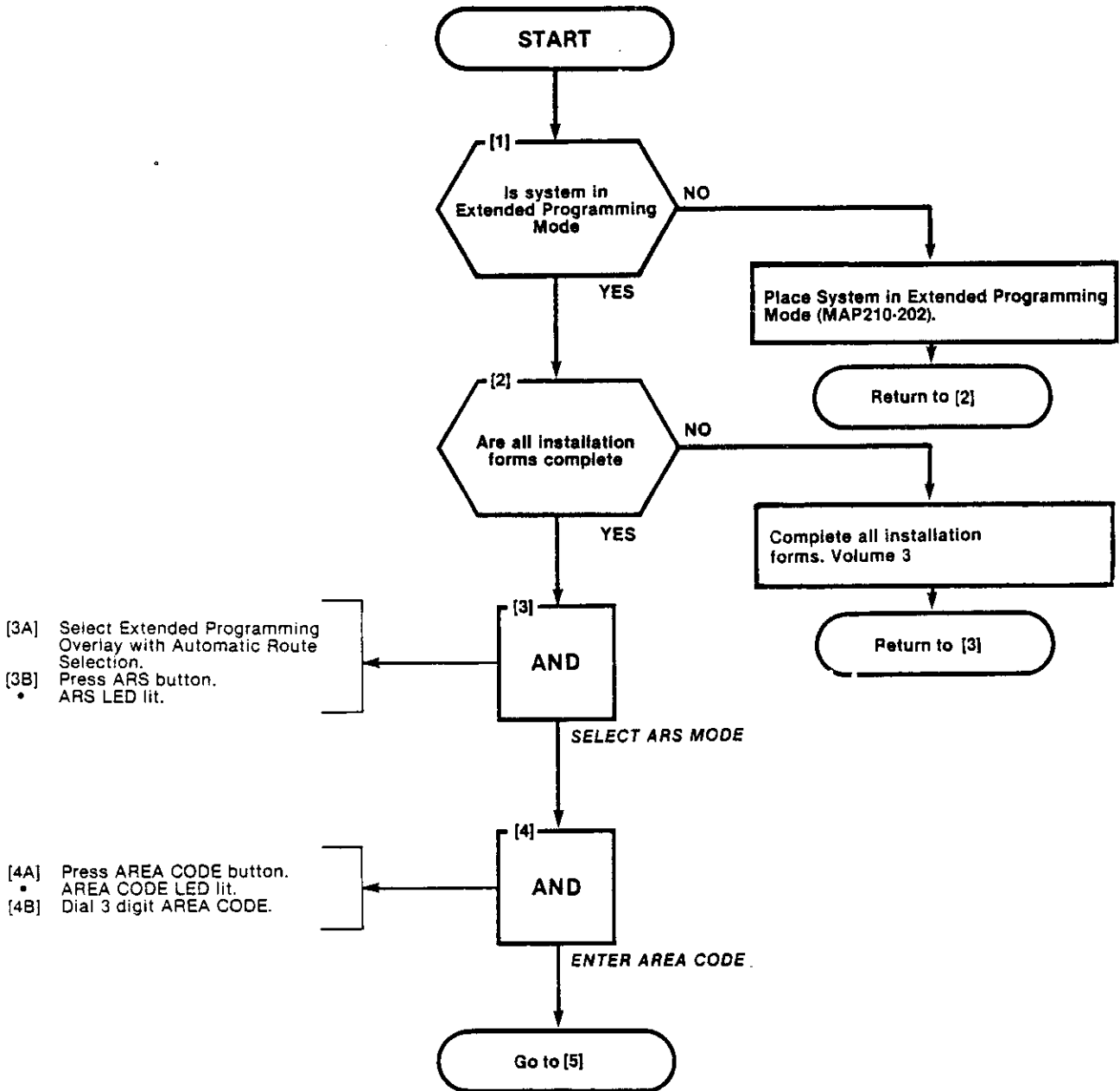
TABLE 250-1

TABLE QUANTITY

Configuration Selected	Permissable Dialed Digits	Type of ARS Table
1	1 to 7	ARS 1 Basic
2	1 to 7	ARS 1 Basic
3	1 to 7	ARS 1 Basic
4	1 to 7	ARS 1 Basic
5	1 to 12	ARS 2 Standard
6	1 to 22	ARS 3 Extended
7	1 to 7	ARS 1 Basic



AREA CODE TABLE PROGRAMMING
MAP210-251
Issue 2, February 1982
Sheet 1 of 2



SECTION MITL9105/9110-097-210-NA

AREA CODE TABLE PROGRAMMING
MAP210-251
Issue 2, February 1982
Sheet 2 of 2

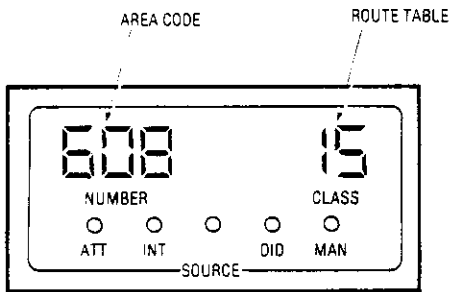
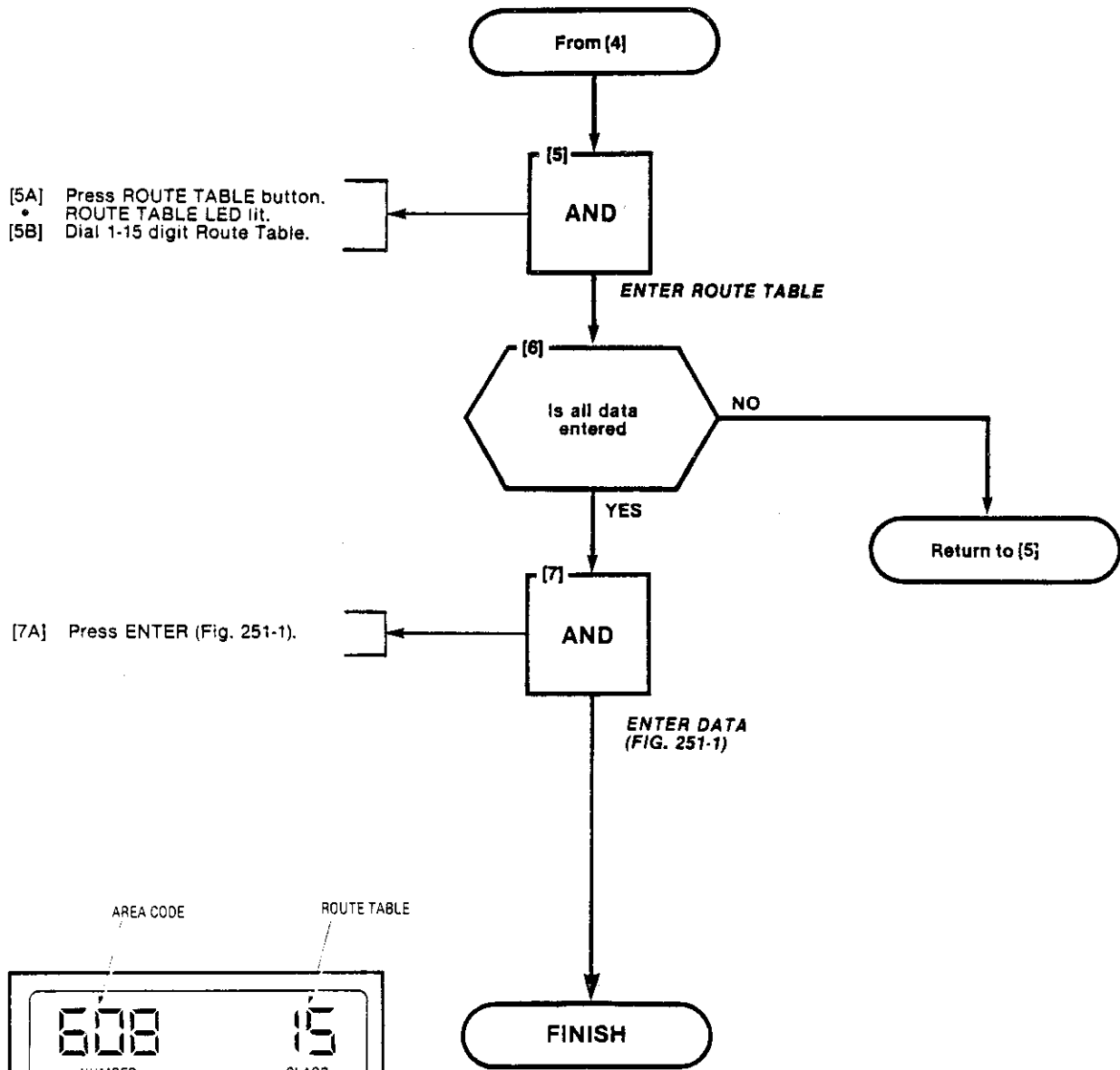


Fig. 251-1 Area Code and Route Table

REVIEW AREA CODE TABLE PROGRAMMING
MAP210-252
Issue 2, February 1982
Sheet 1 of 2

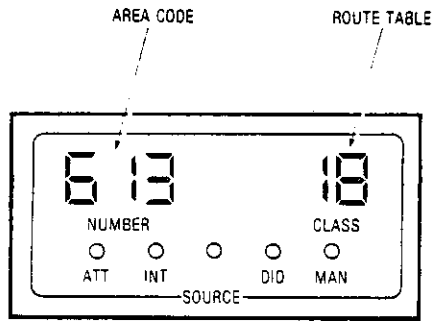
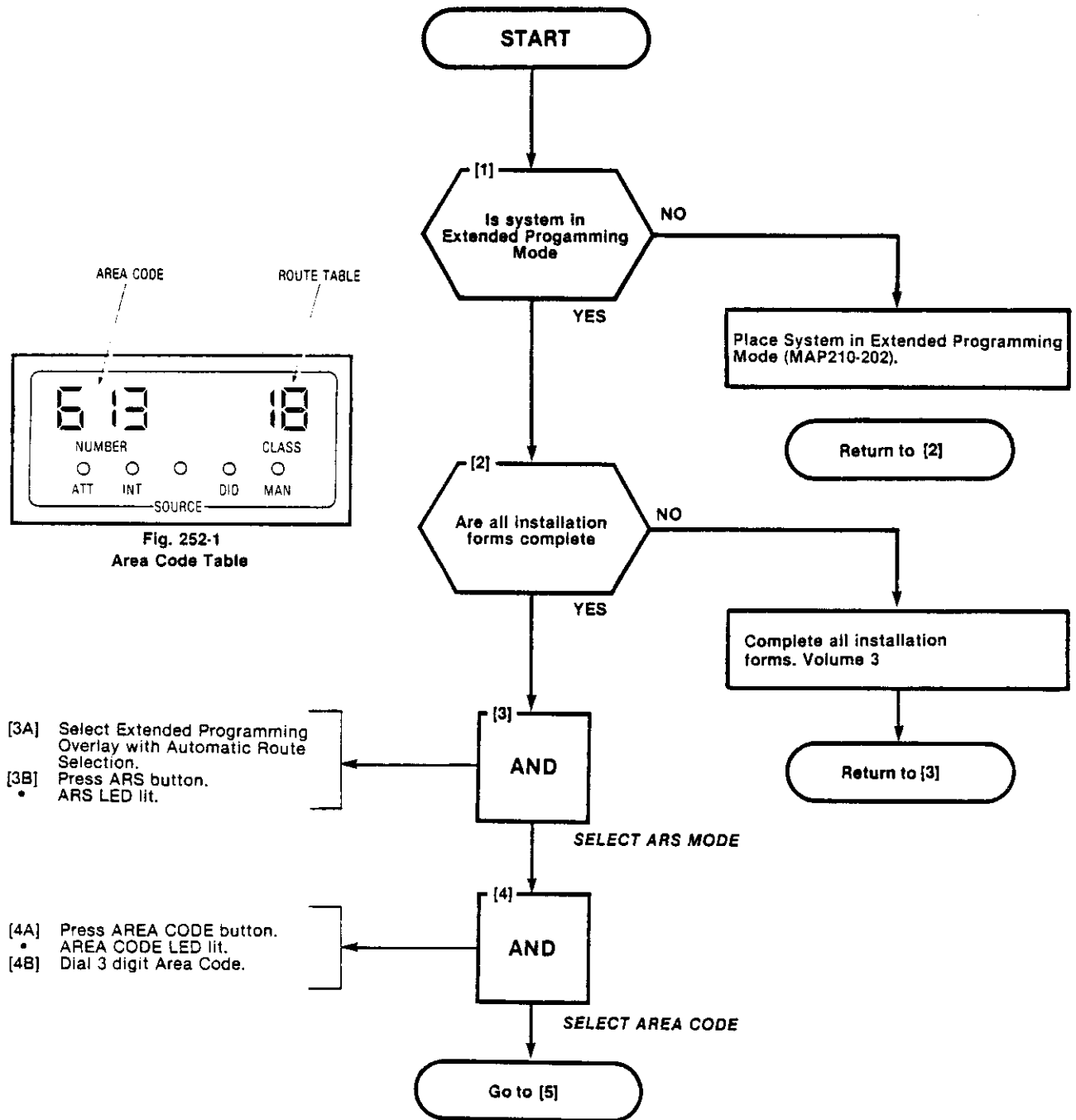
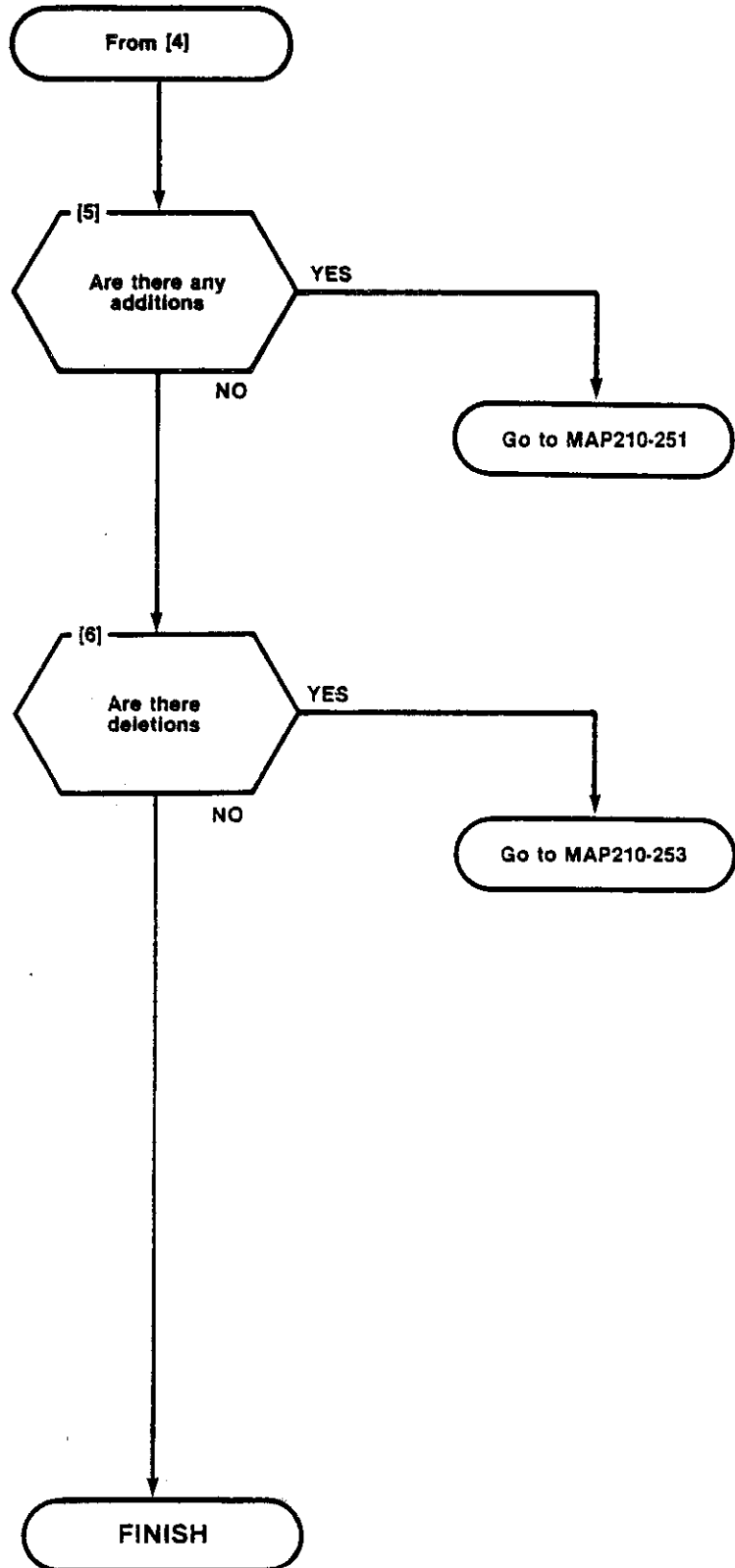


Fig. 252-1  
Area Code Table



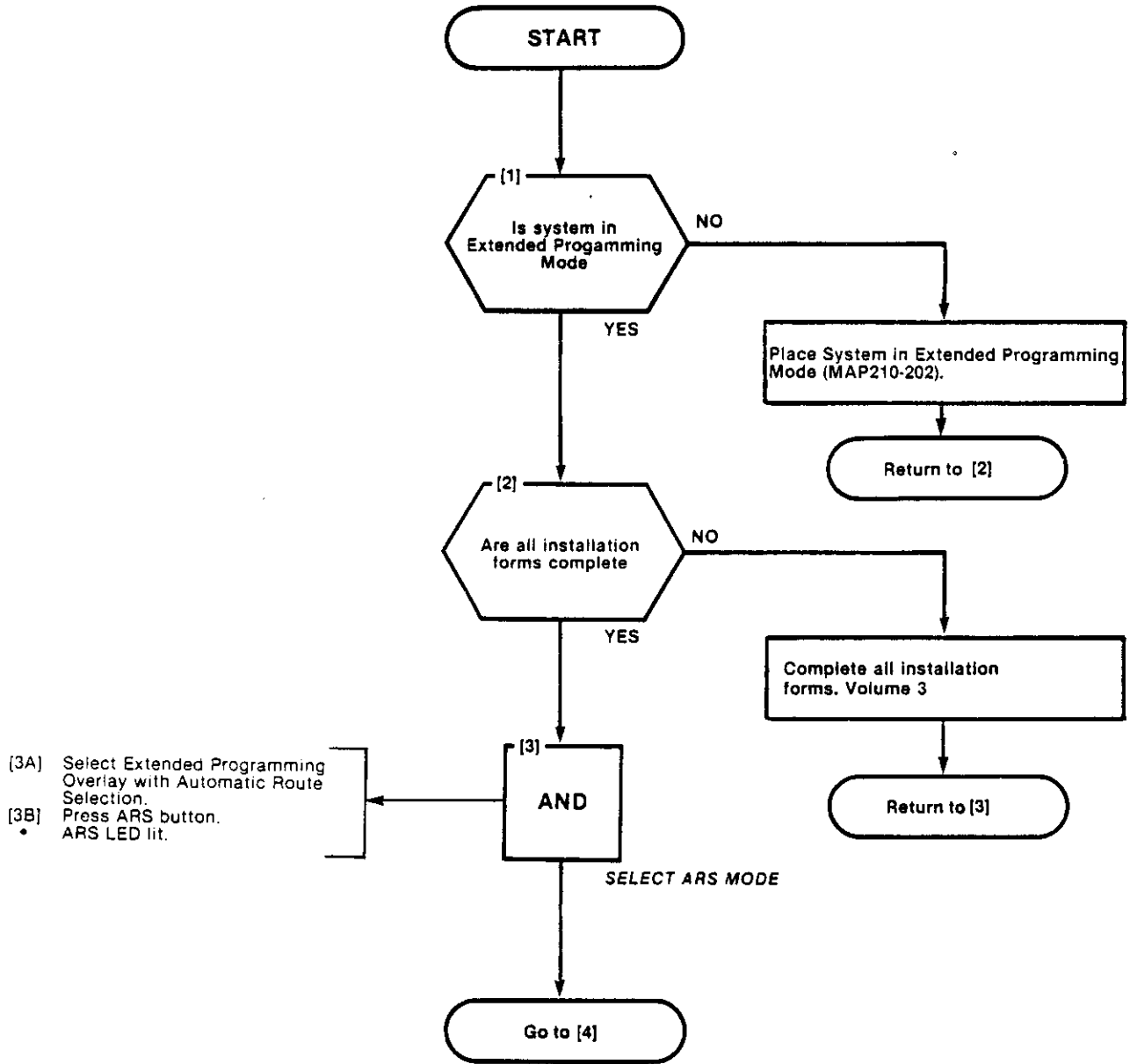
SECTION MITL9105/9110-097-210-NA

REVIEW AREA CODE TABLE PROGRAMMING
MAP210-252
Issue 2, February 1982
Sheet 2 of 2



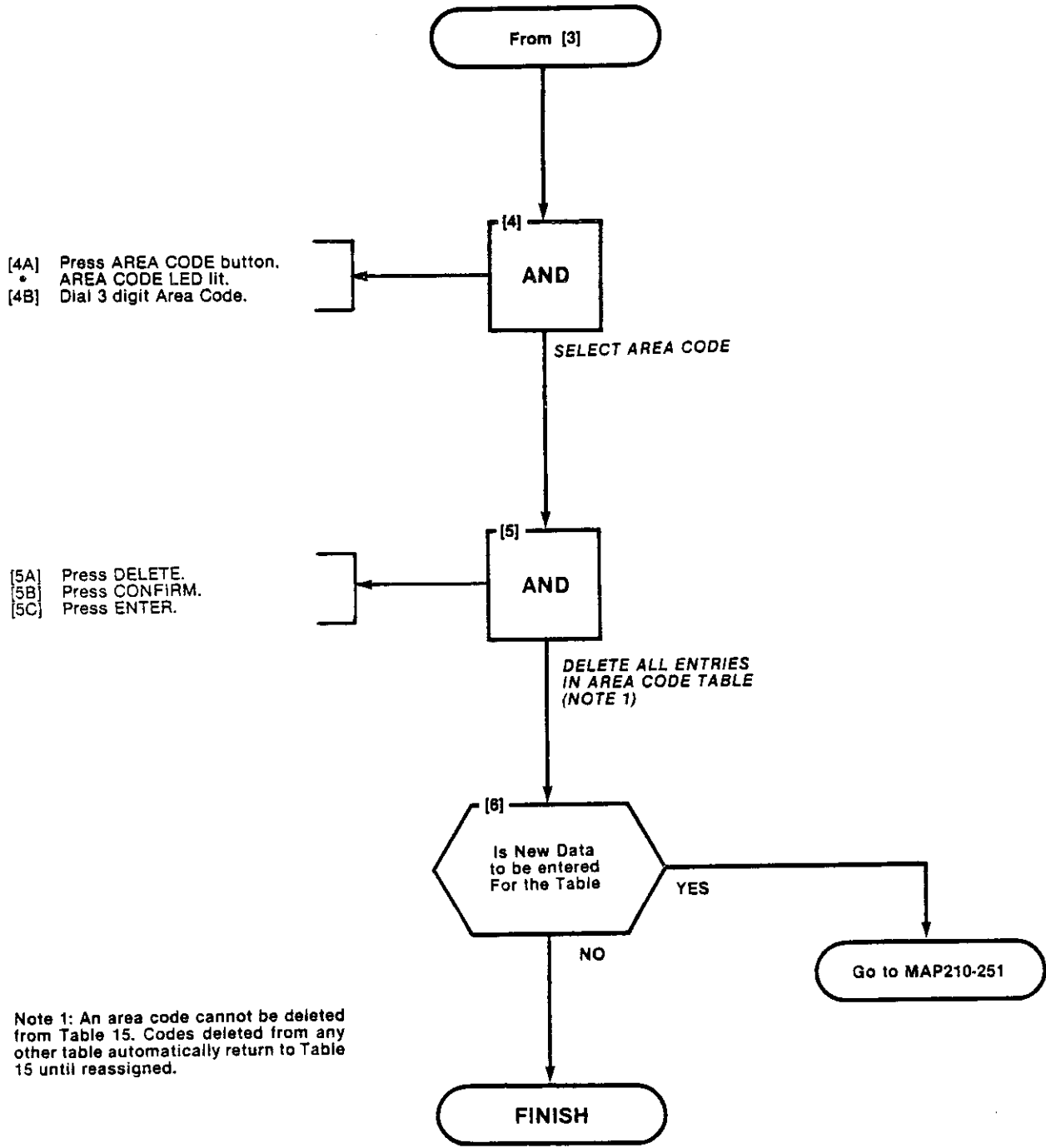


DELETE AN AREA CODE TABLE
MAP210-253
Issue 2, February 1982
Sheet 1 of 2

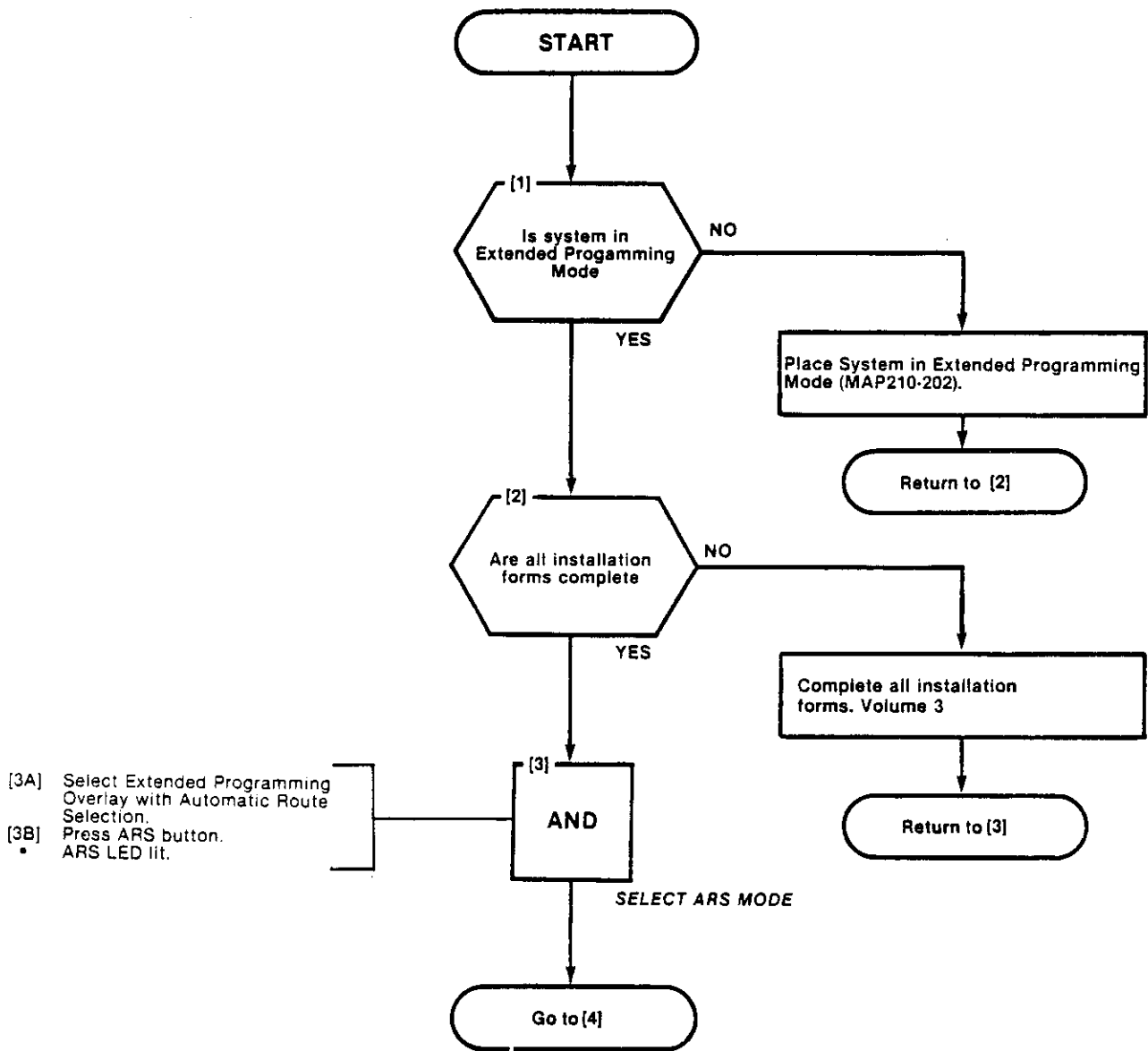


SECTION MITL9105/9110-097-210-NA

DELETE AN AREA CODE TABLE
MAP210-253
Issue 2, February 1982
Sheet 2 of 2

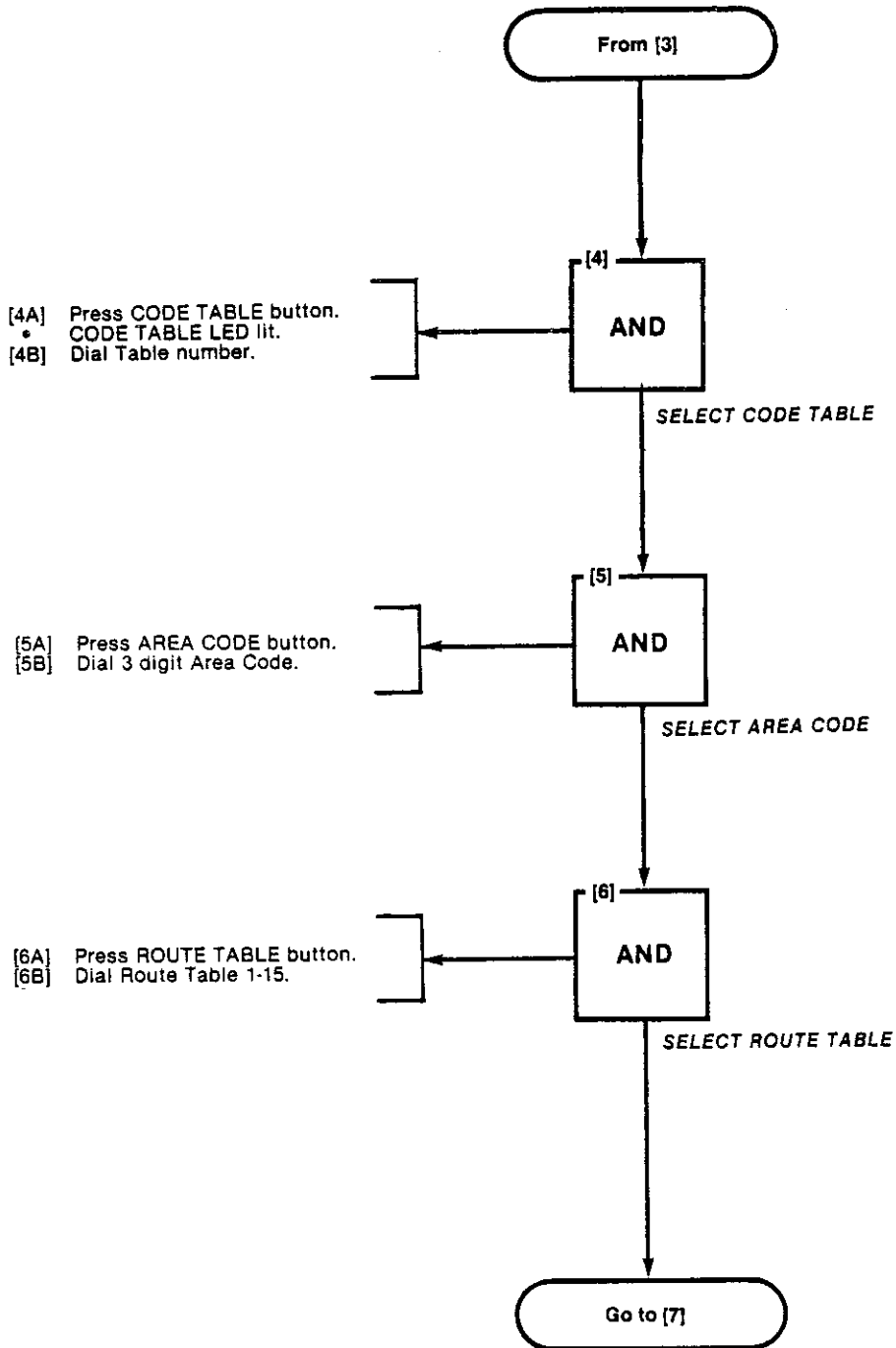


AREA CODE/OFFICE CODE PROGRAMMING
MAP210-254
Issue 2, February 1982
Sheet 1 of 4



SECTION MITL9105/9110-097-210-NA

AREA CODE/OFFICE CODE PROGRAMMING
MAP210-254
Issue 2, February 1982
Sheet 2 of 4



AREA CODE/OFFICE CODE PROGRAMMING
MAP210-254
Issue 2, February 1982
Sheet 3 of 4

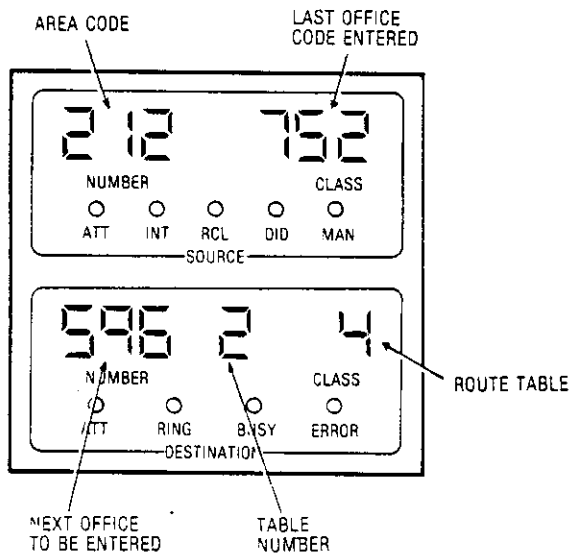
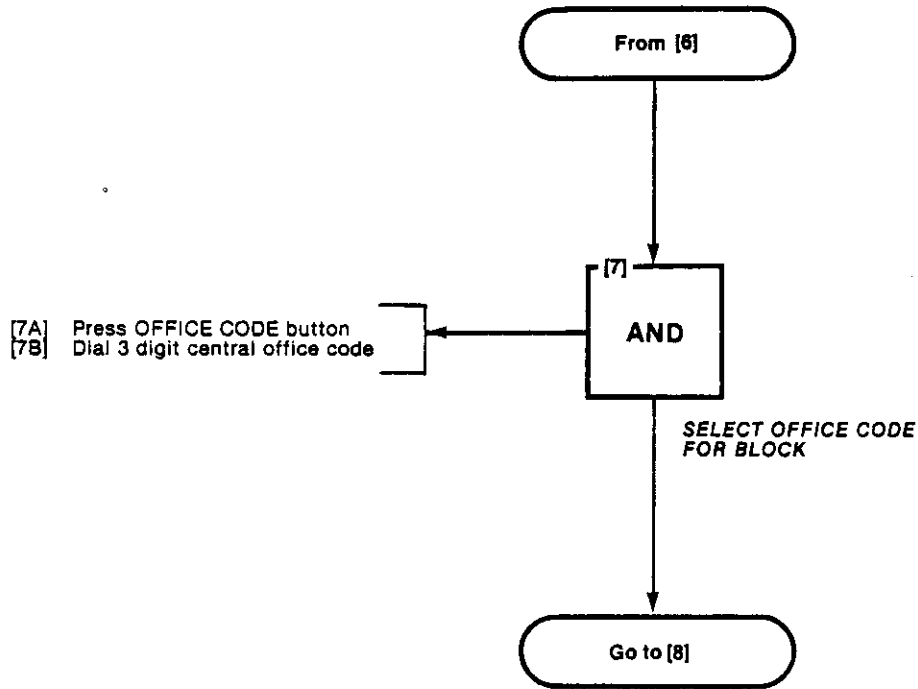
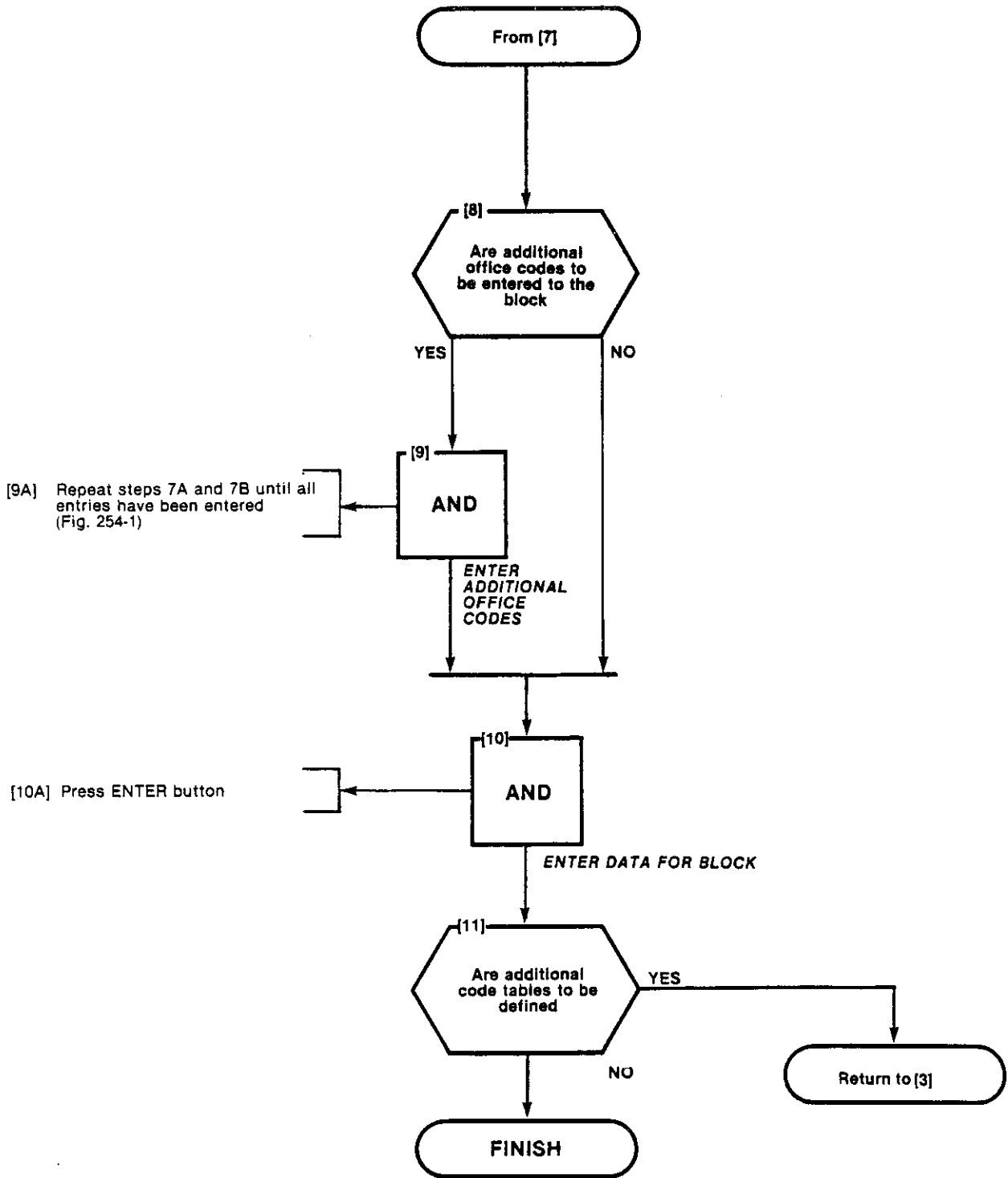


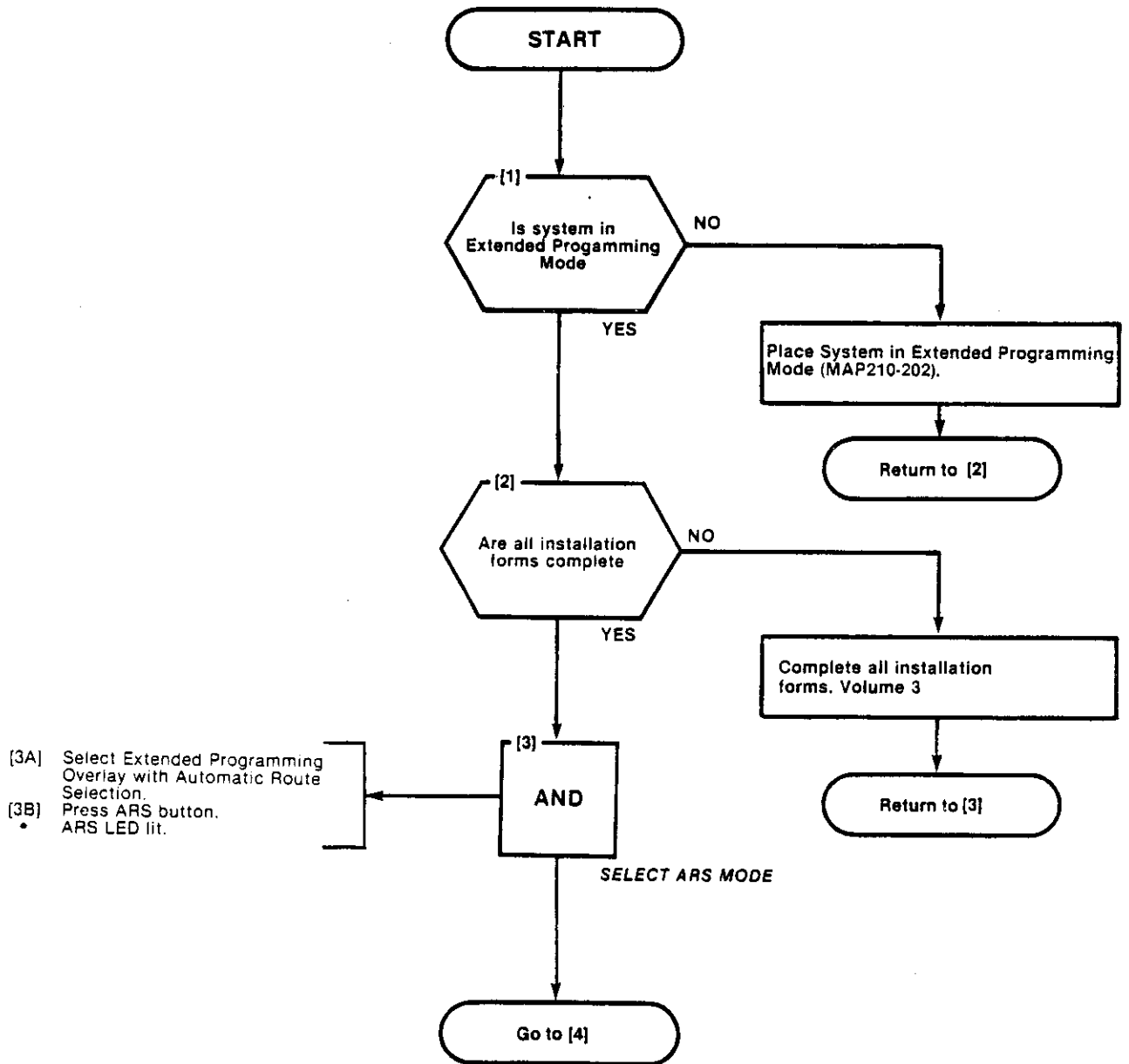
Fig. 254-1

SECTION MITL9105/9110-097-210-NA

AREA CODE OFFICE CODE PROGRAMMING
MAP210-254
Issue 2, February 1982
Sheet 4 of 4



REVIEW OR DELETE PART OR ALL AREA CODE/OFFICE CODE
MAP210-255
Issue 2, February 1982
Sheet 1 of 3



SECTION MITL9105/9110-097-210-NA

REVIEW OR DELETE PART OR ALL AREA CODE OFFICE CODE
MAP210-255
Issue 2, February 1982
Sheet 2 of 3

- [4A] Press CODE TABLE button.  
 CODE TABLE LED lit.  
 The first Office Code table will be displayed in the DESTINATION display (Fig. 255-1).

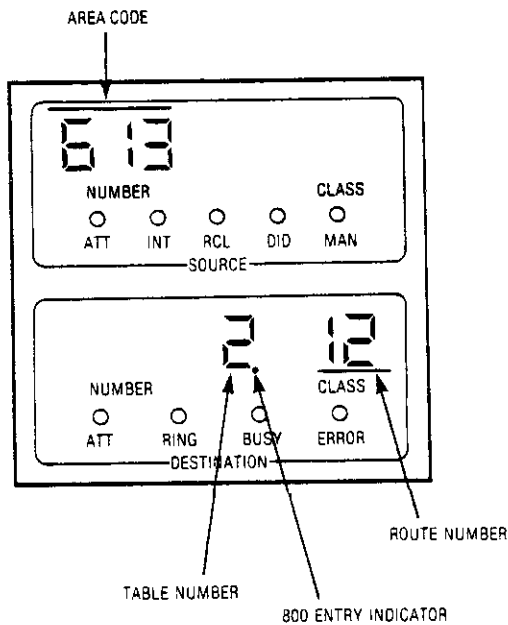
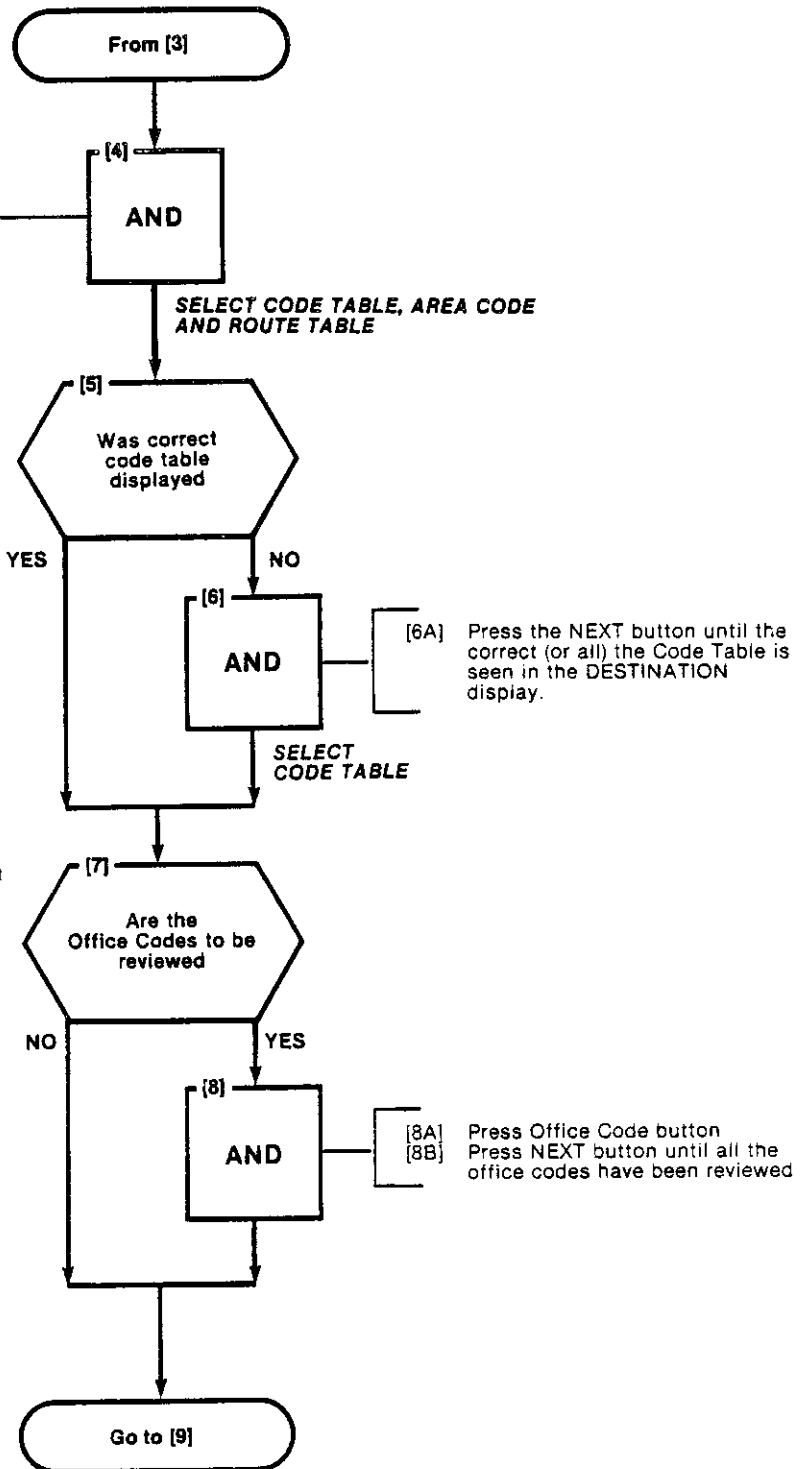
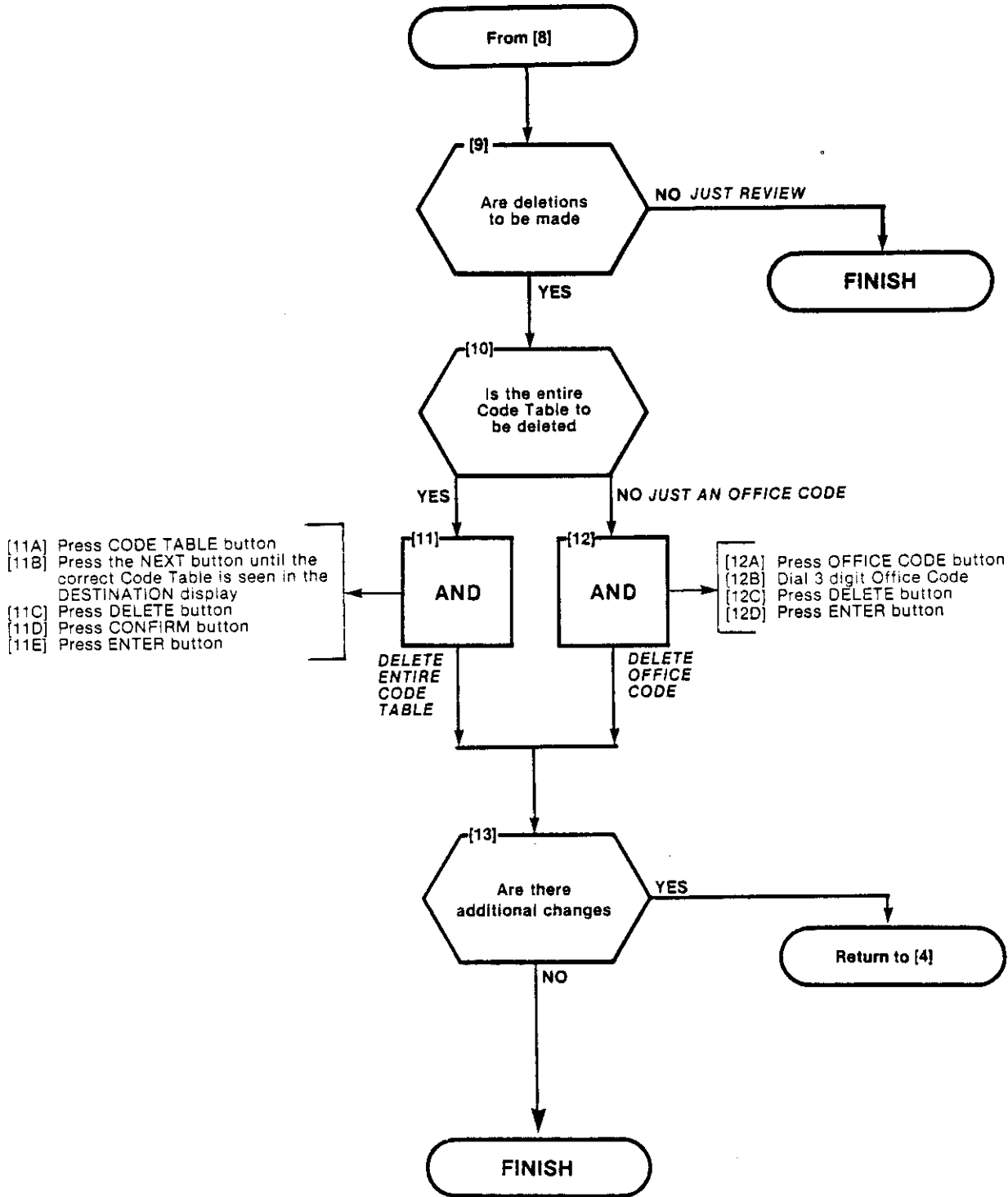


Fig. 255-1 Code Table



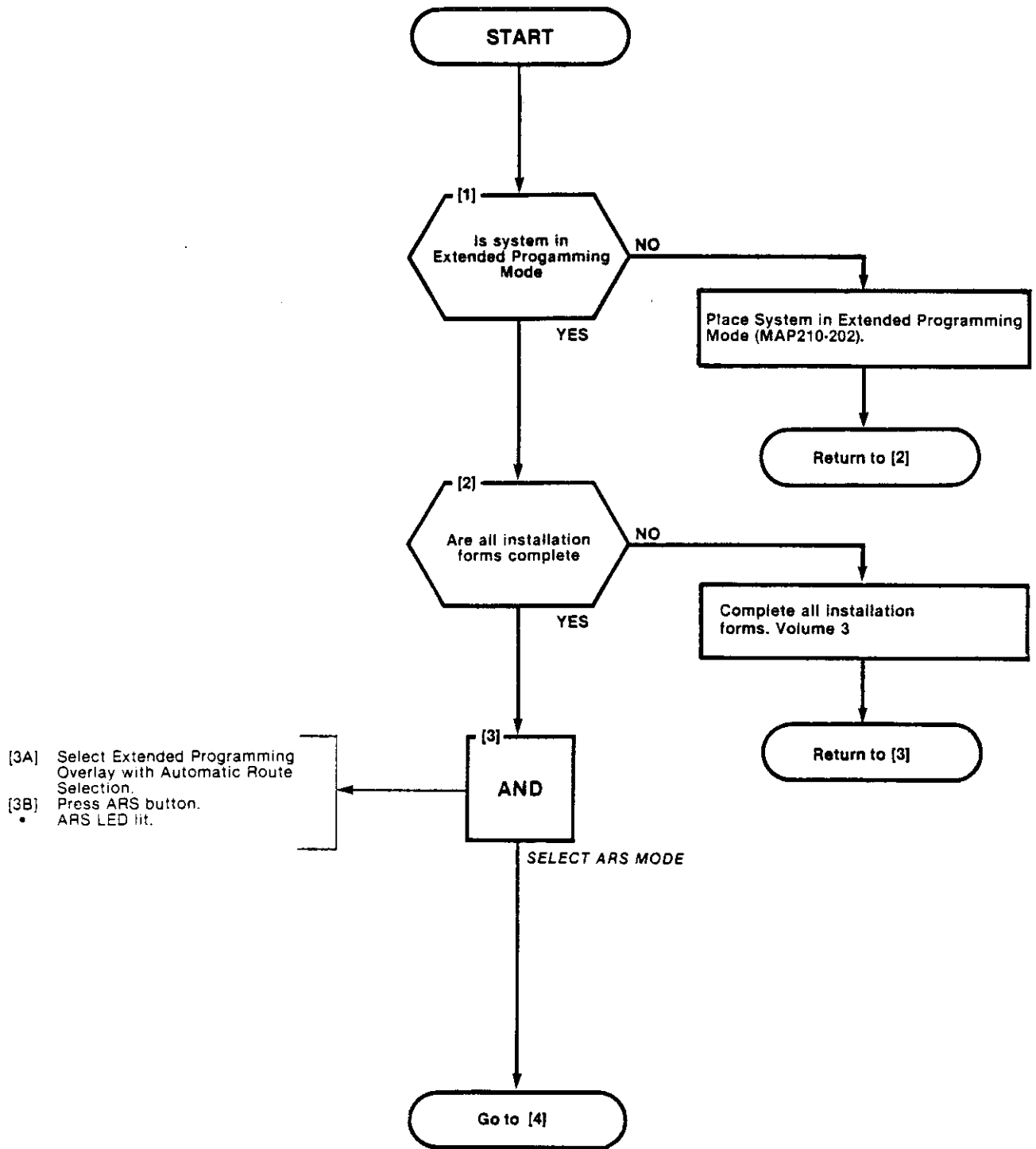


REVIEW OR DELETE PART OR ALL AREA CODE/OFFICE CODE
MAP210-255
Issue 2, February 1982
Sheet 3 of 3



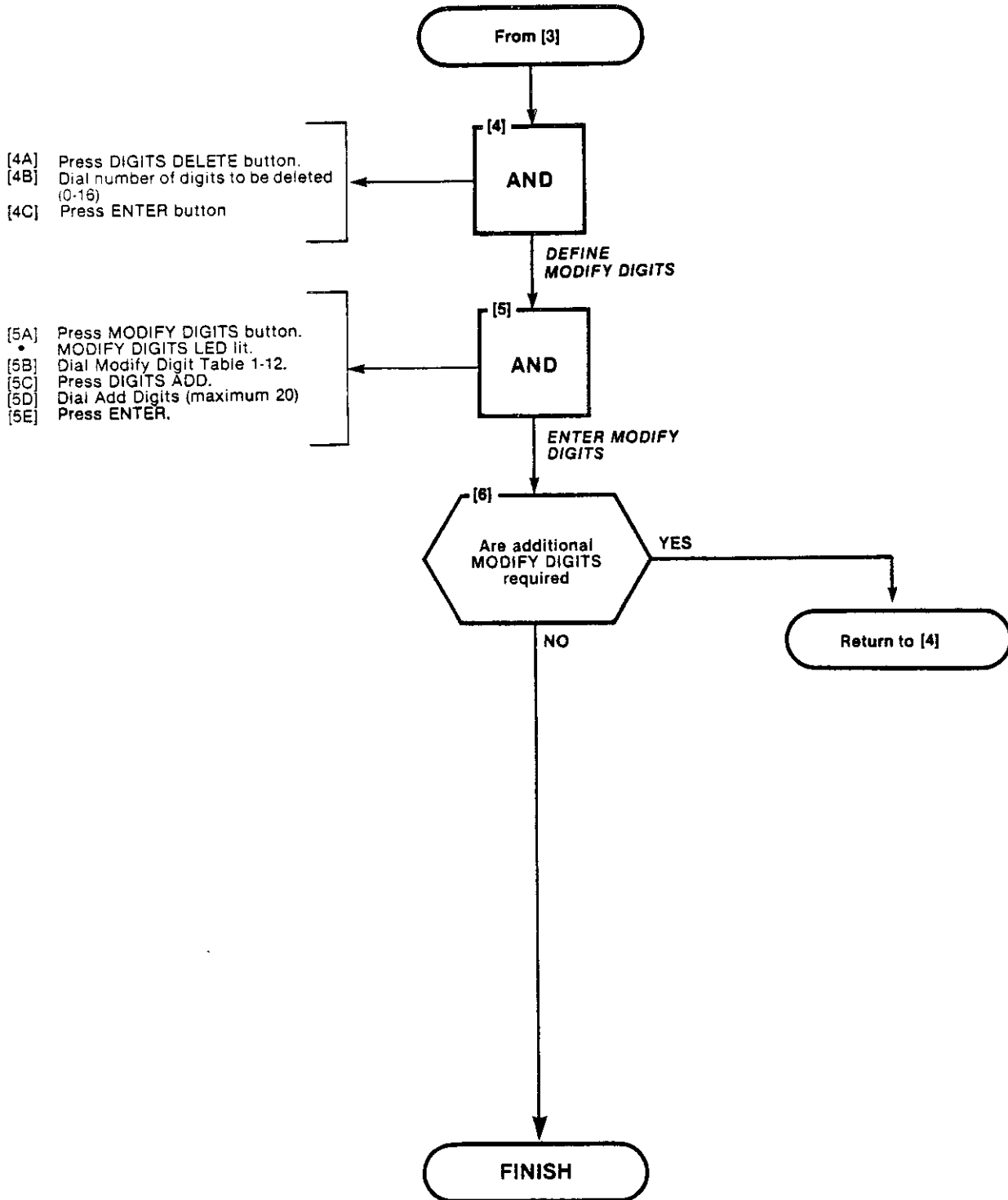


PROGRAM MODIFY DIGITS
MAP210-256
Issue 2, February 1982
Sheet 1 of 2

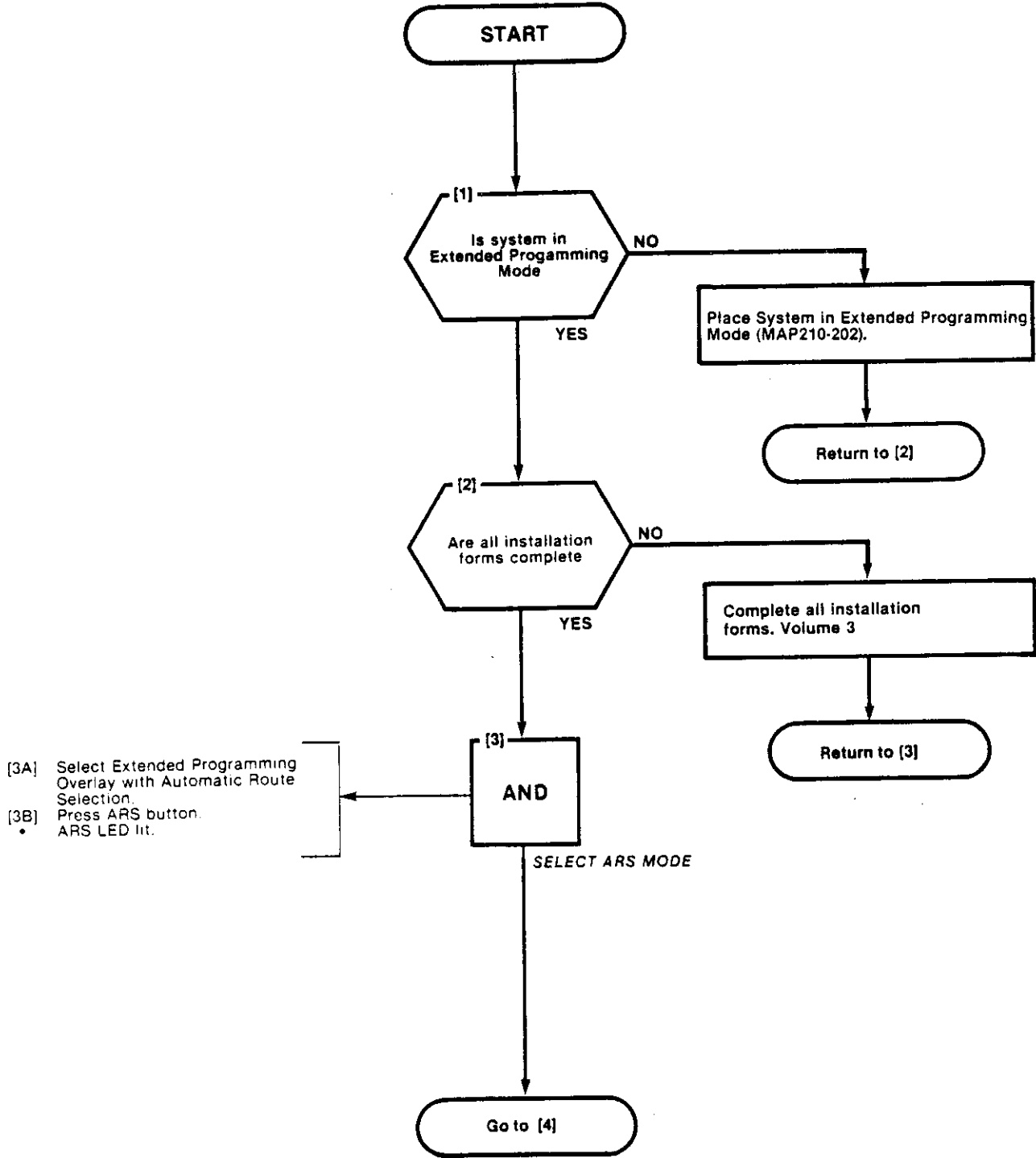


SECTION MITL9105/9110-097-210-NA

PROGRAM MODIFY DIGITS
MAP210-256
Issue 2, February 1982
Sheet 2 of 2

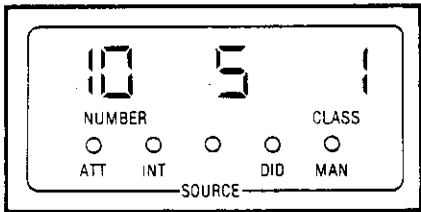
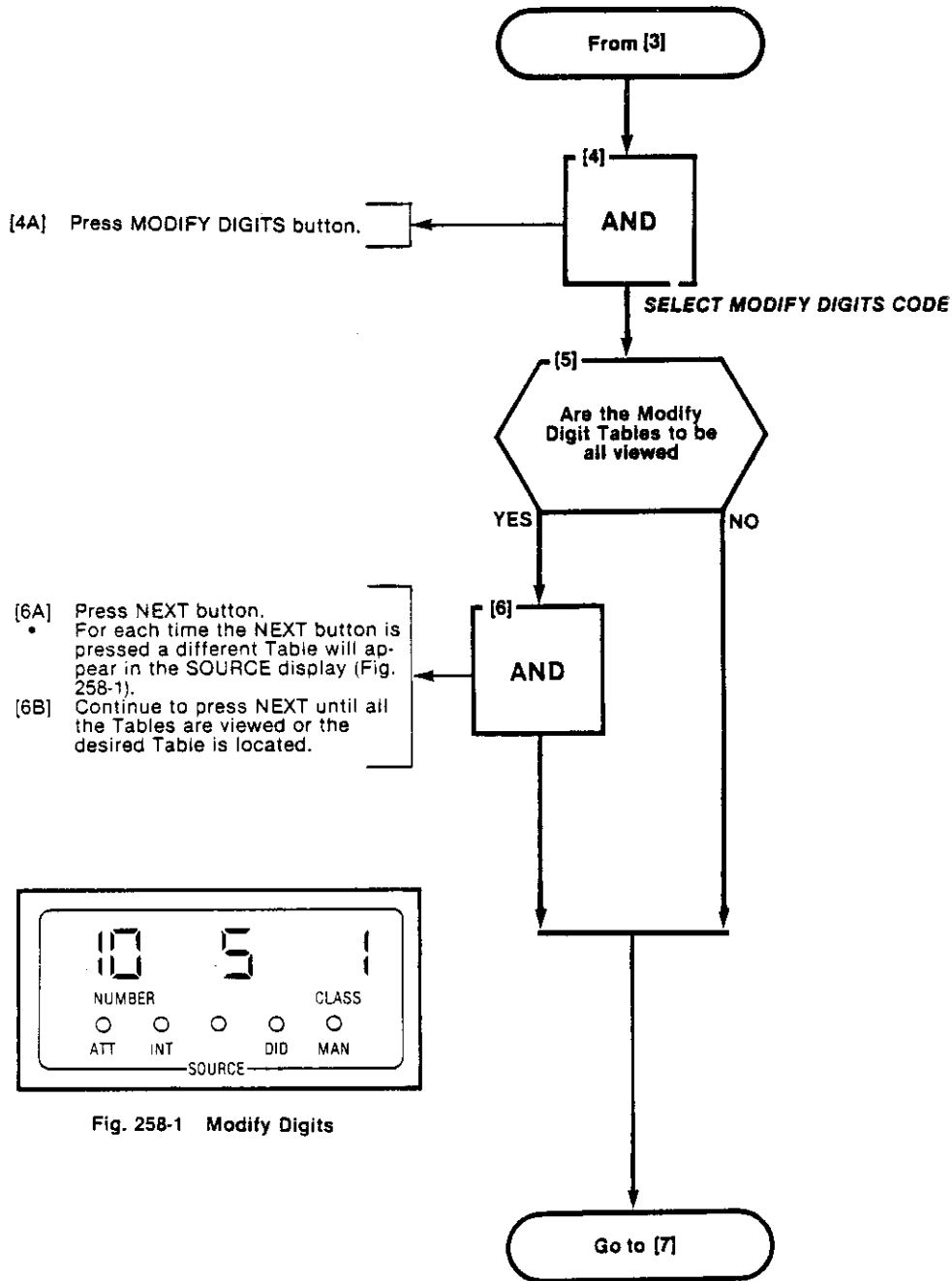


TO REVIEW OR DELETE MODIFY DIGIT TABLES
MAP210-257
Issue 2, February 1982
Sheet 1 of 4



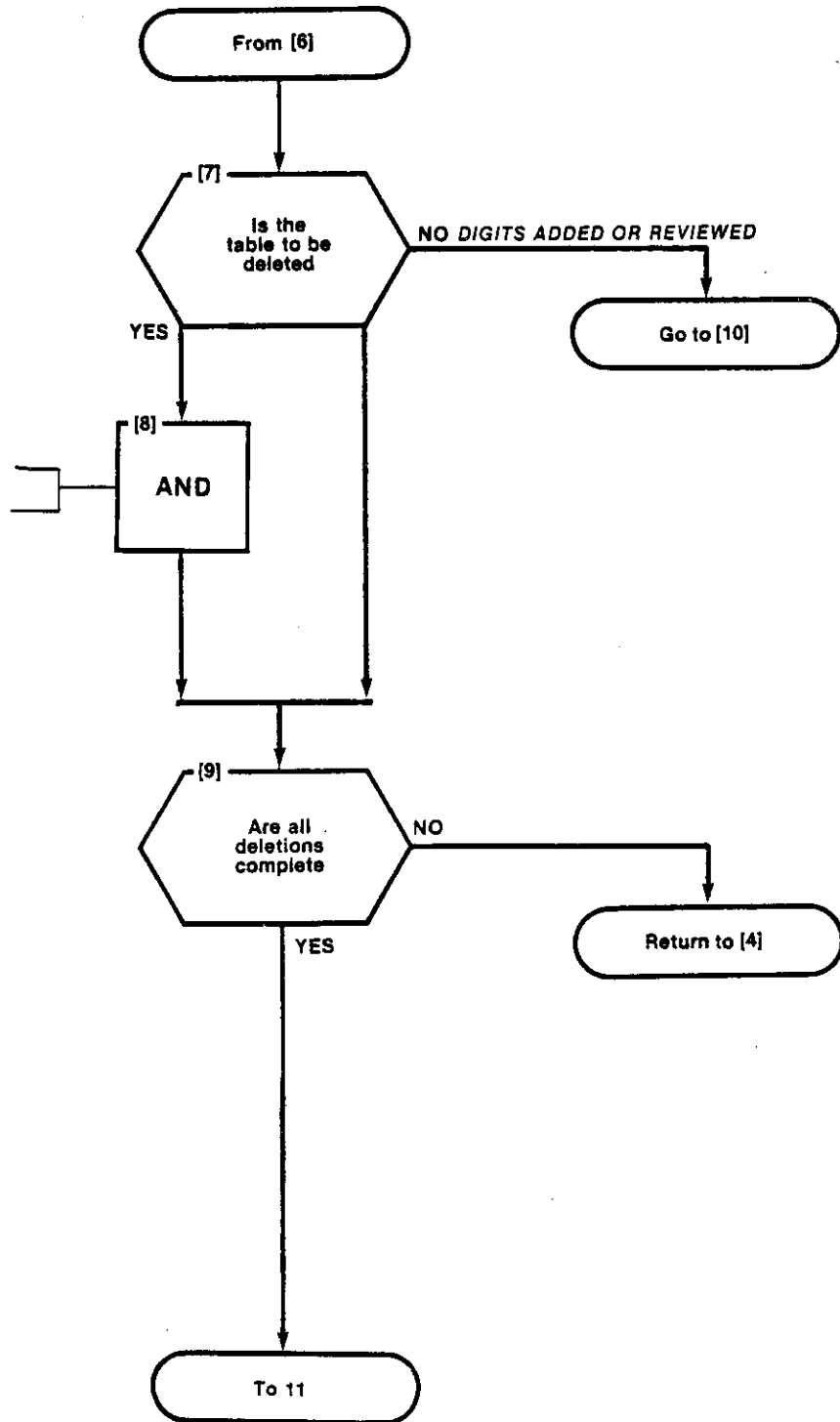
SECTION MITL9105/9110-097-210-NA

TO REVIEW OR DELETE MODIFY DIGIT TABLES
MAP210-257
Issue 2, February 1982
Sheet 2 of 4



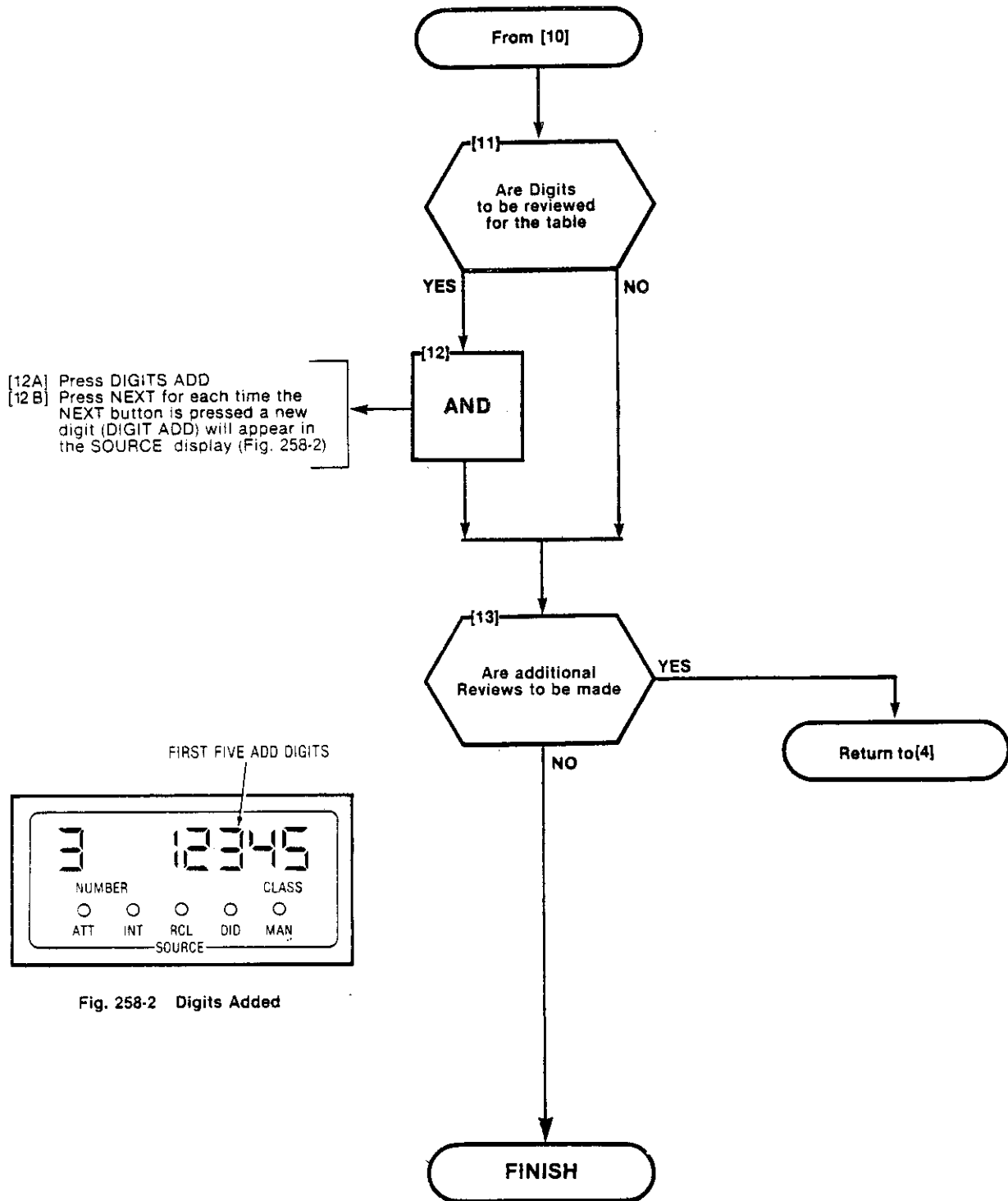
TO REVIEW OR DELETE MODIFY DIGIT TABLES
MAP210-257
Issue 2, February 1982
Sheet 3 of 4

[8A] Press DELETE button  
[8B] Press ENTER button



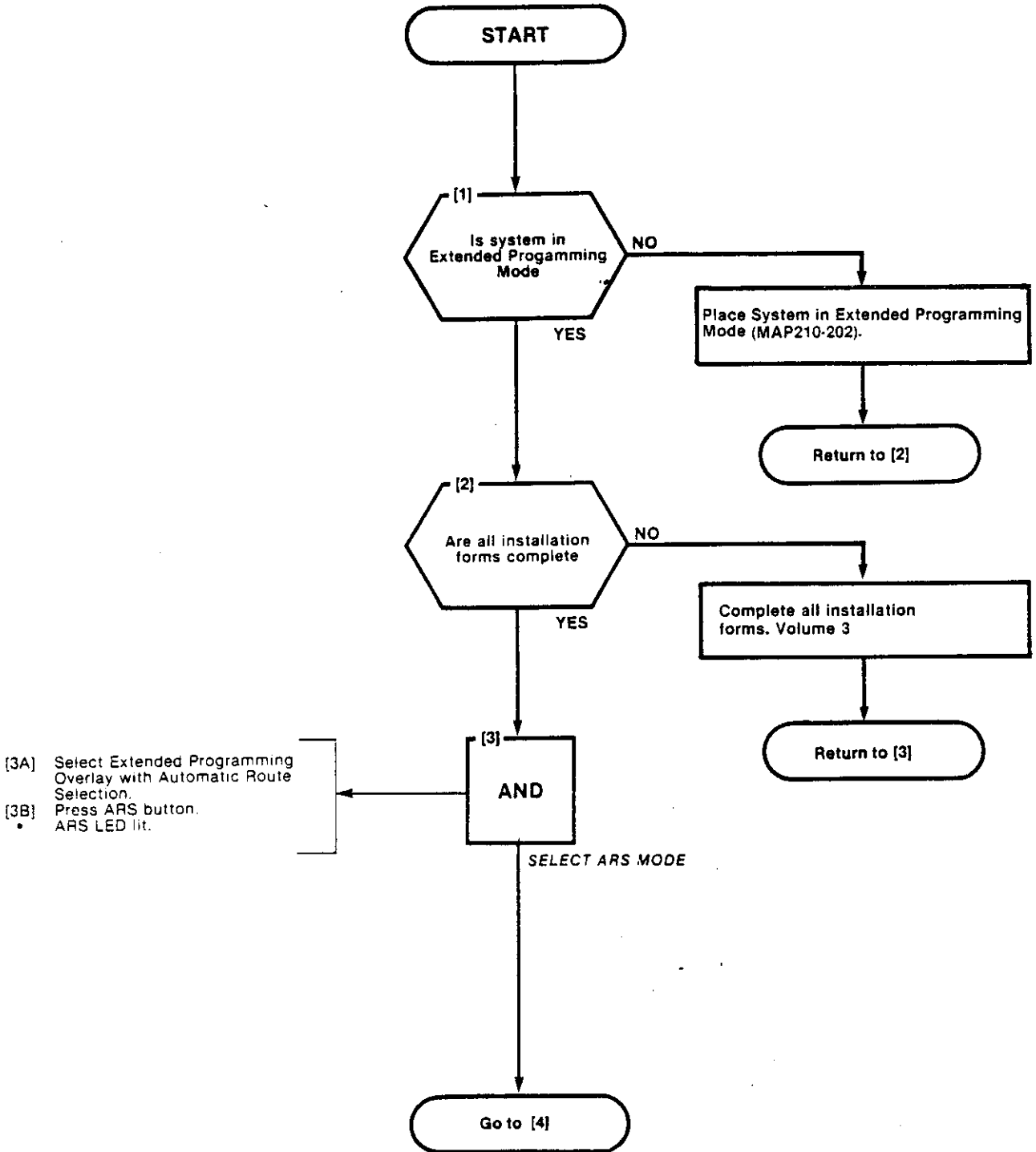
SECTION MITL9105/9110-097-210-NA

TO REVIEW OR DELETE MODIFY DIGIT TABLES
MAP210-257
Issue 2, February 1982
Sheet 4 of 4



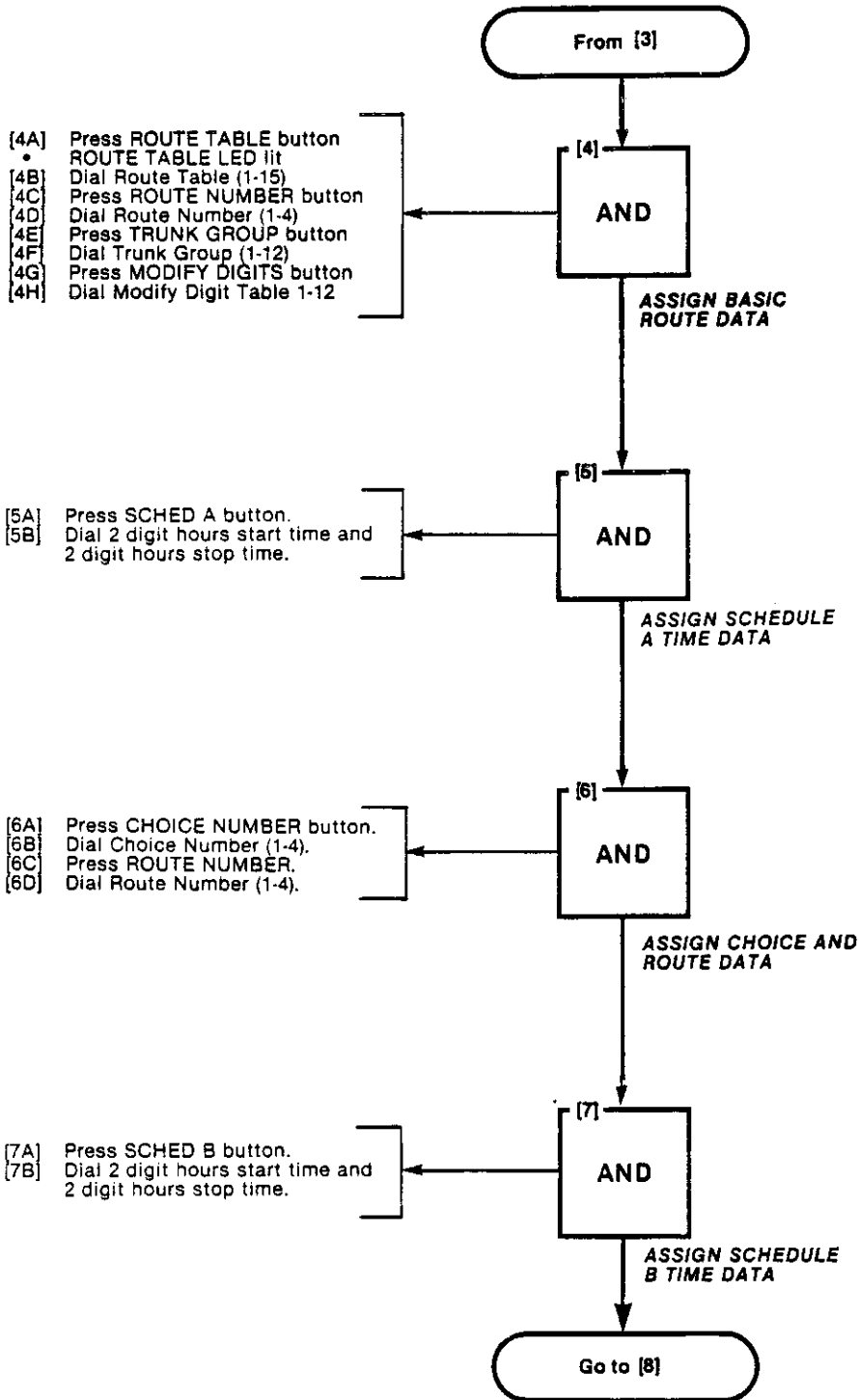


ROUTE TABLE PROGRAMMING
MAP210-258
Issue 2, February 1982
Sheet 1 of 3

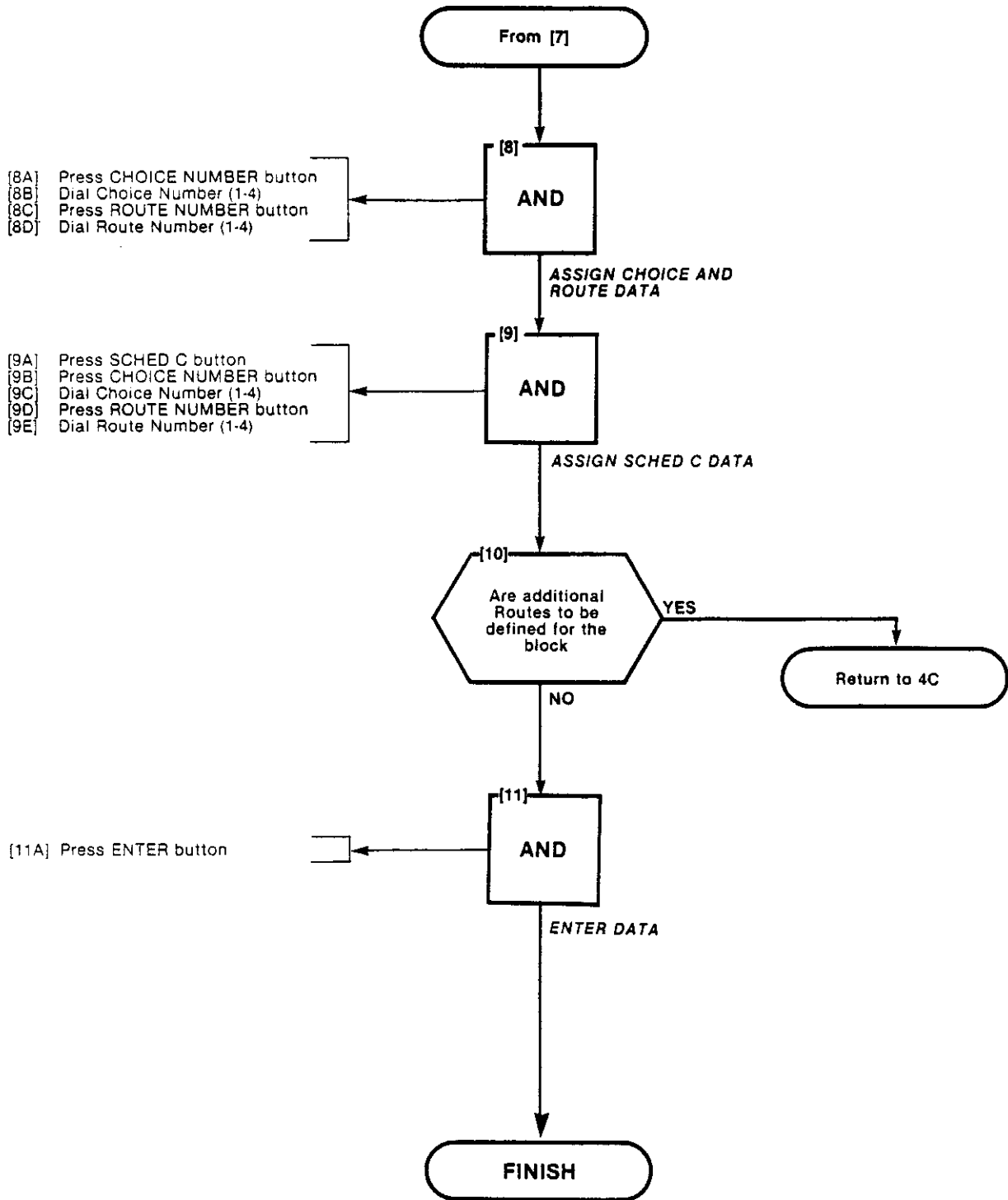


SECTION MITL9105/9110-097-210-NA

ROUTE TABLE PROGRAMMING
MAP210-258
Issue 2, February 1982
Sheet 2 of 3

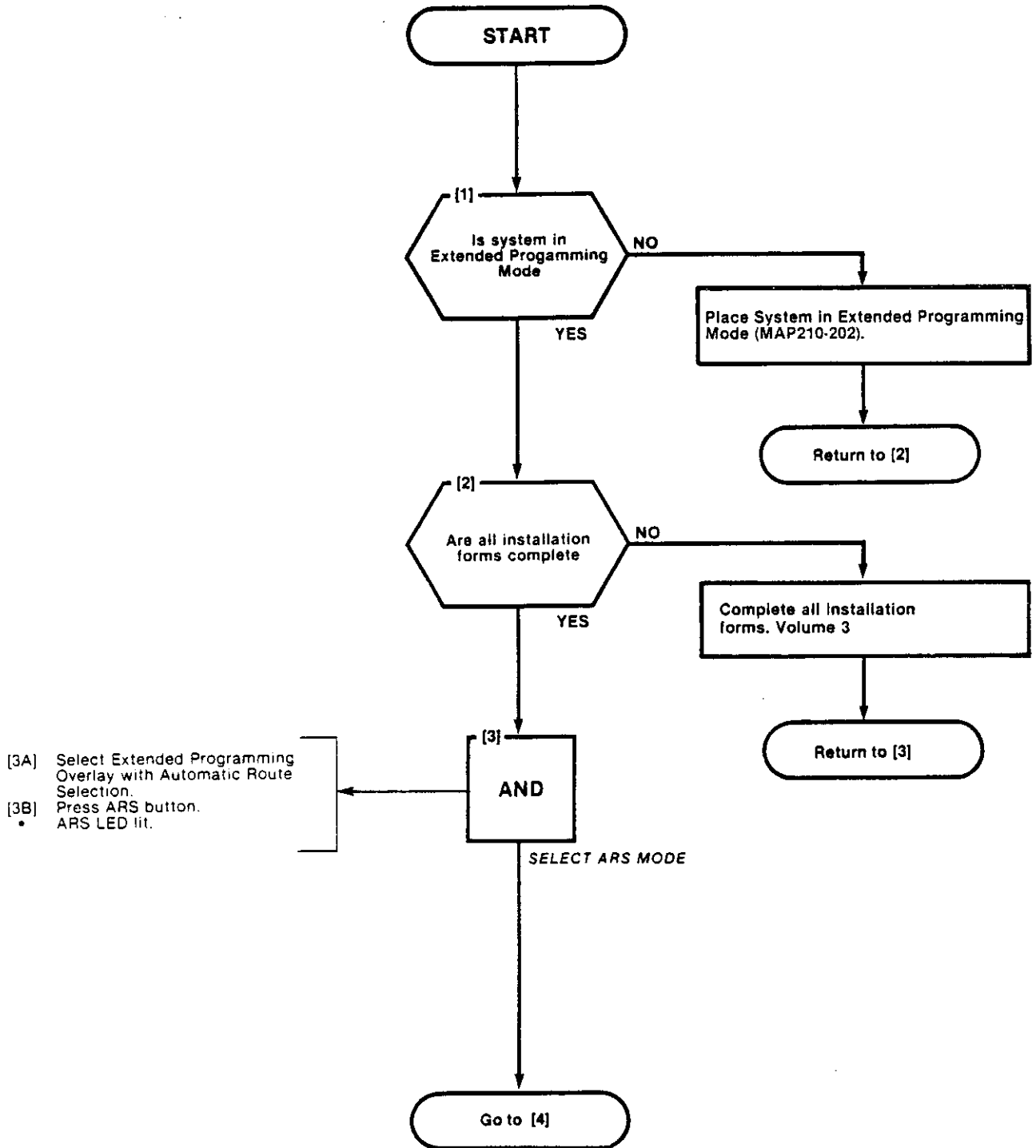


ROUTE TABLE PROGRAMMING
MAP210-258
Issue 2, February 1982
Sheet 3 of 3



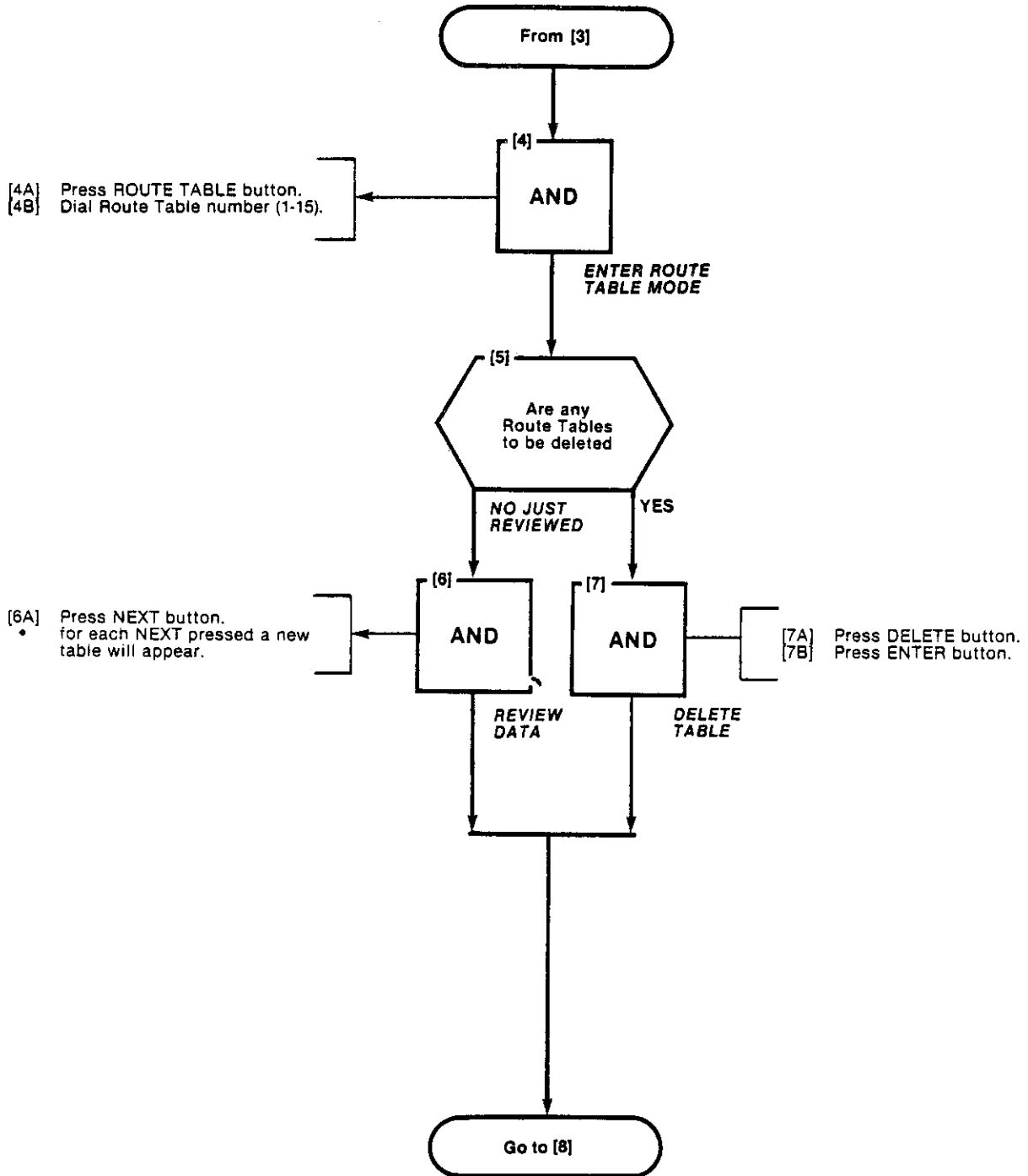


TO REVIEW OR DELETE A ROUTE TABLE
MAP210-259
Issue 2, February 1982
Sheet 1 of 3

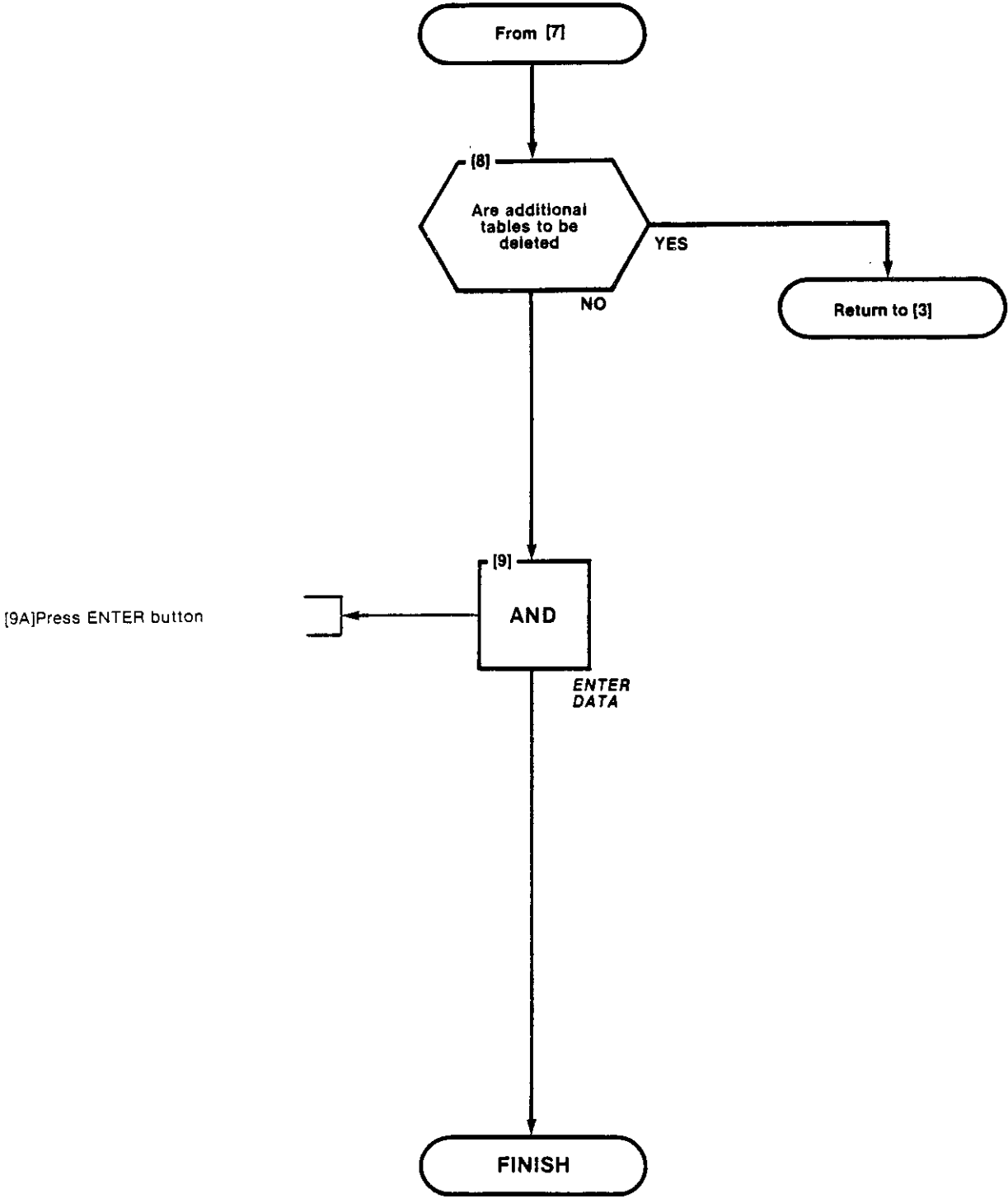


SECTION MITL9105/91110-097-210-NA

TO REVIEW OR DELETE A ROUTE TABLE
MAP210-259
Issue 2, February 1982
Sheet 2 of 3



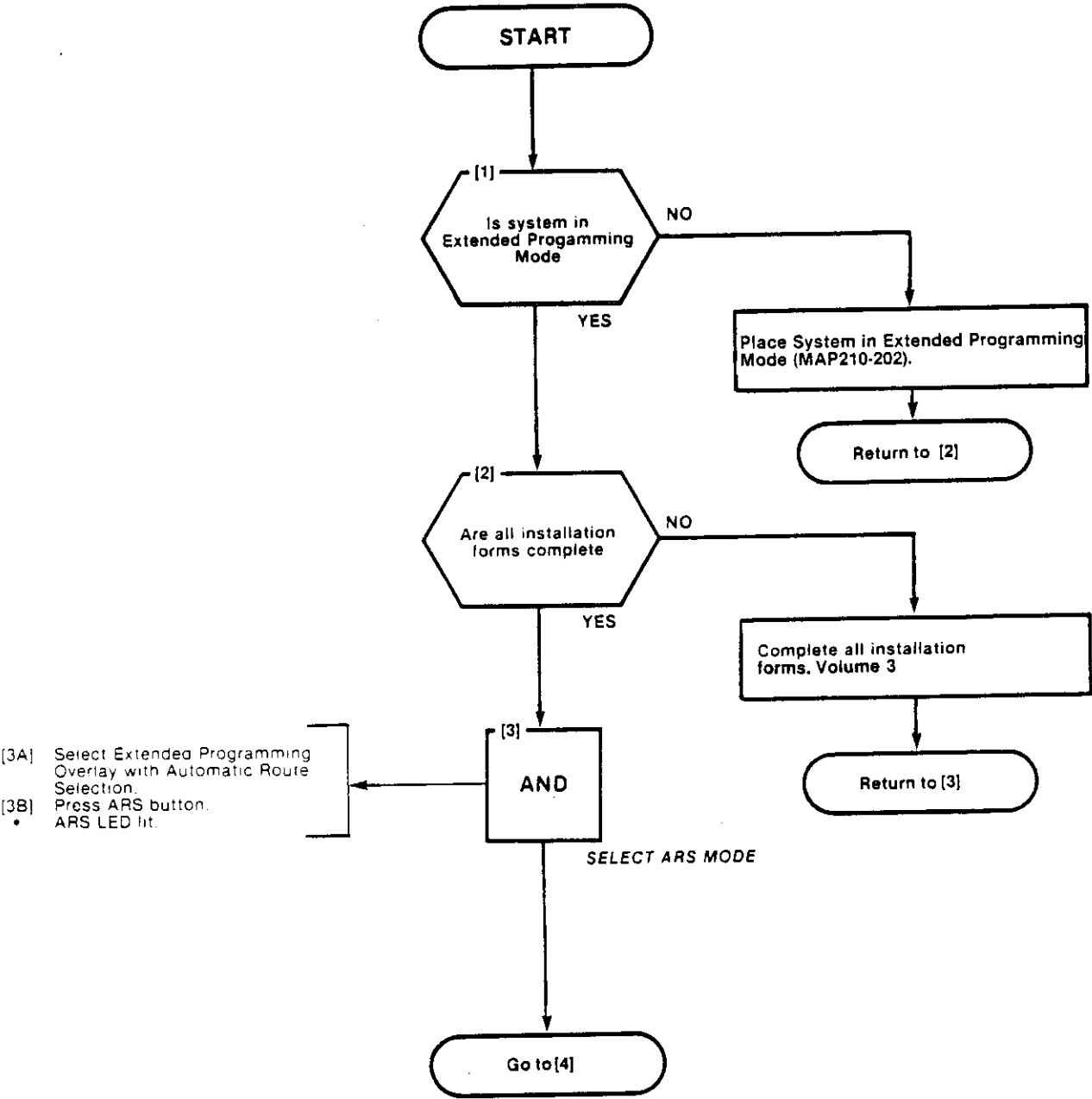
TO REVIEW OR DELETE A ROUTE TABLE
MAP210-259
Issue 2, February 1982
Sheet 3 of 3







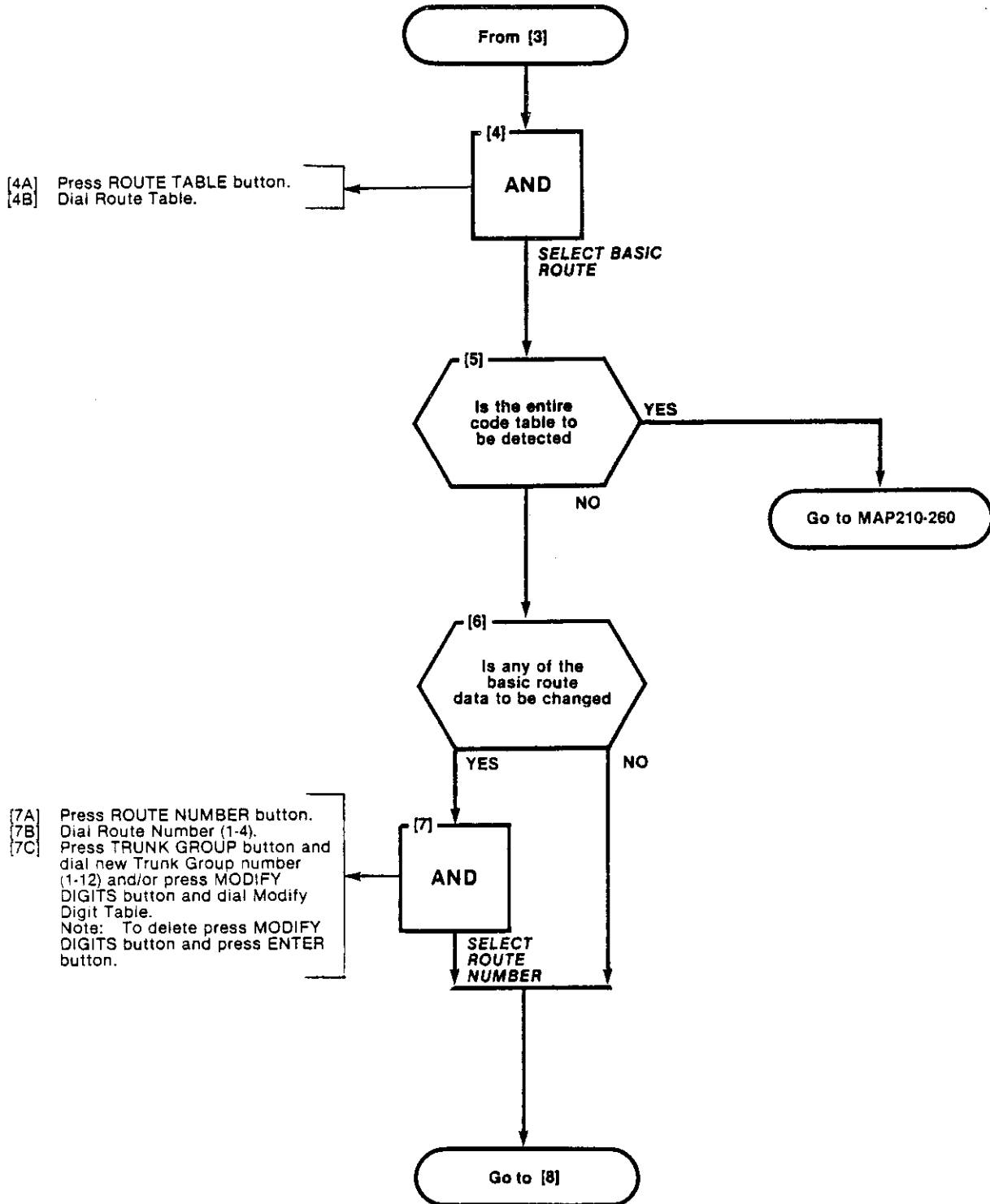
REVIEW OR DELETE ROUTES
MAP210-260
Issue 2, February 1982
Sheet 1 of 3



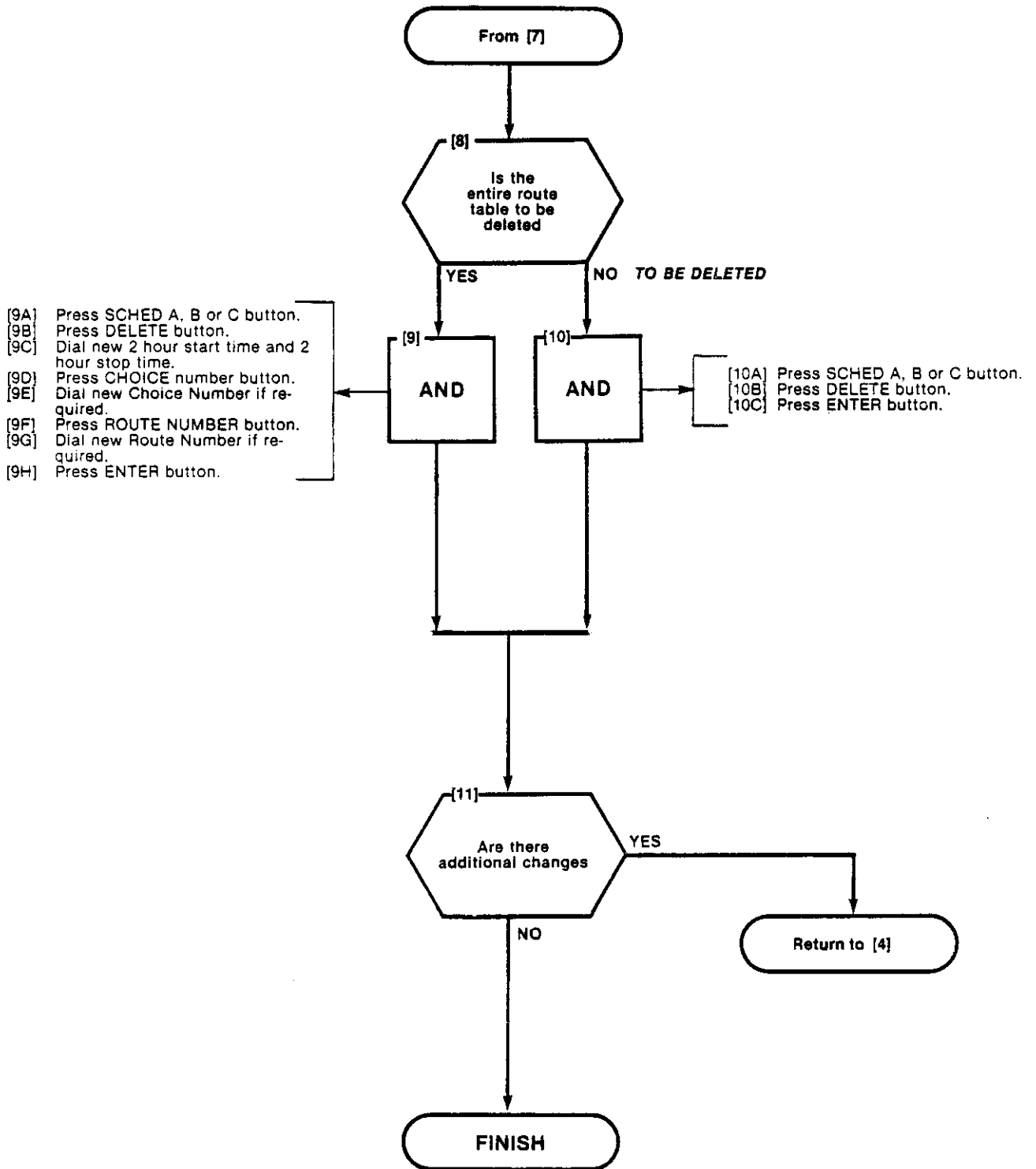
[3A] Select Extended Programming Overlay with Automatic Route Selection.  
[3B] Press ARS button.  
• ARS LED lit.

SECTION MITL9105/9110-097-210-NA

REVIEW OR DELETE ROUTES
MAP210-260
Issue 2, February 1982
Sheet 2 of 3

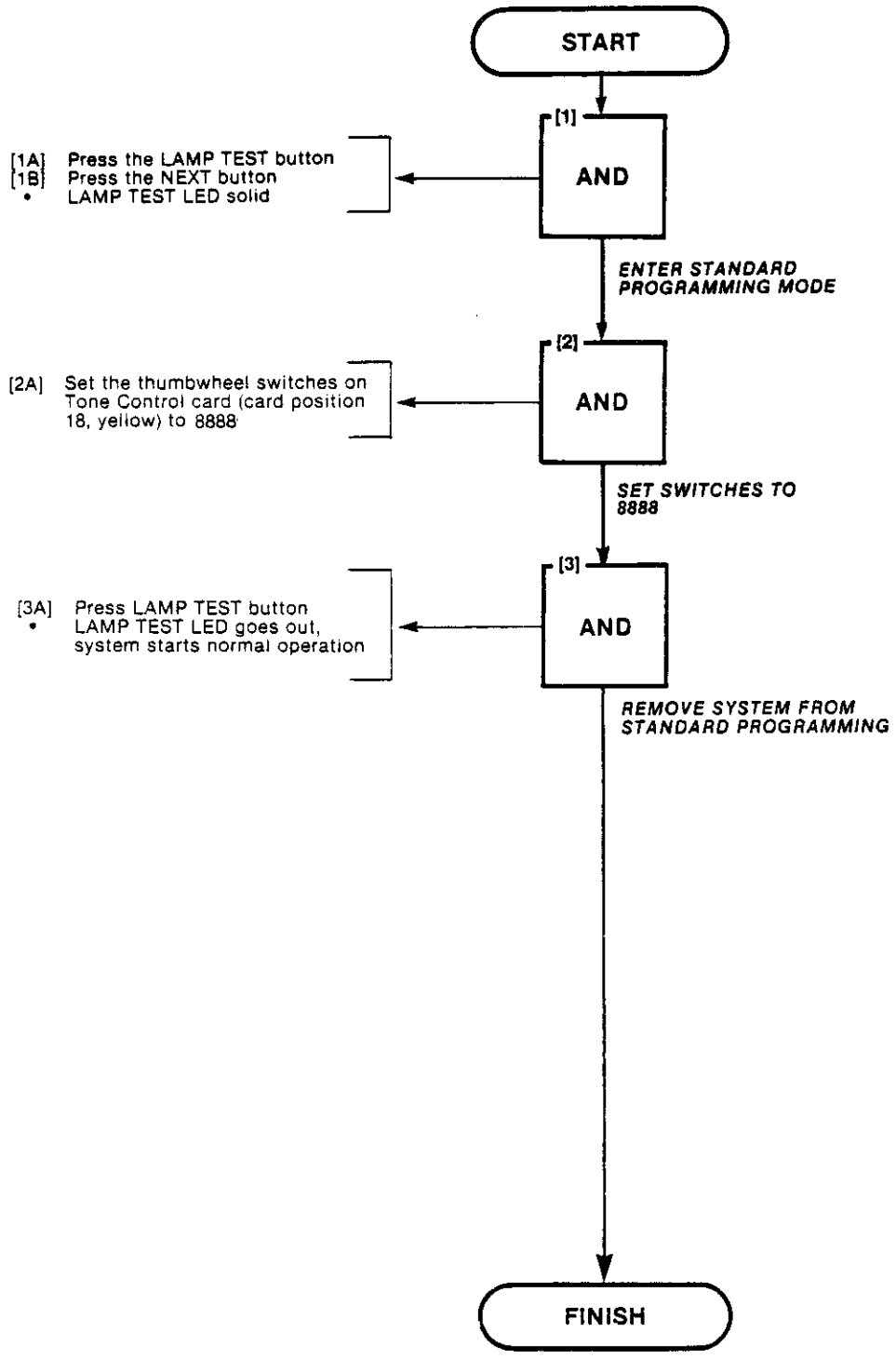


REVIEW OR DELETE ROUTES
MAP210-260
Issue 2, February 1982
Sheet 3 of 3





TERMINATING PROGRAMMING
MAP210-274
Issue 2, February 1982
Sheet 1 of 1





**SX-100\*SX-200\***  
**SUPERSWITCH\***  
**ELECTRONIC PRIVATE AUTOMATIC BRANCH EXCHANGE**  
**SYSTEM TEST PROCEDURES**  
**GENERIC 216**

CONTENTS	PAGE	CONTENTS	PAGE
1. INTRODUCTION . . . . .	2	APPENDIX 2 Extension Test (Cont'd)	
General . . . . .	2	Executive Busy Override	
Reason for Reissue . . . . .	2	(MAP215-213) . . . . .	A2-27/28
2. DETAILED TEST PROCEDURES . . . . .	3	Paging	
System Test Procedures . . . . .	3	(MAP215-214) . . . . .	A2-29/30
APPENDIX 1 Mitel Action Procedures . . . . .	A1-1	Do Not Disturb	
APPENDIX 2 Extension Tests . . . . .	A2-1/2	(MAP215-215) . . . . .	A2-31/32
Set Up Test Equipment		Call Hold	
(MAP215-201) . . . . .	A2-3/4	(MAP215-216) . . . . .	A2-33
Broker's Call		Room Status	
(MAP215-202) . . . . .	A2-5/6	(MAP215-217) . . . . .	A2-37/38
Call Forwarding - Busy		Automatic Wake-Up (Alarm Call)	
(MAP215-203) . . . . .	A2-7/8	(MAP215-218) . . . . .	A2-39/40
Call Forwarding - Don't Answer		Use a Common Use Speed Call	
(MAP215-204) . . . . .	A2-9/10	(MAP215-219) . . . . .	A2-41/42
Call Forwarding - Follow Me		Personal Speed Call	
(MAP215-205) . . . . .	A2-11/12	(MAP215-220) . . . . .	A2-43/44
Call Park		External Call Forwarding	
(MAP215-206) . . . . .	A2-13/14	(MAP215-221) . . . . .	A2-45/46
Call Pickup		Transfer with Privacy	
(MAP215-207) . . . . .	A2-15/16	(MAP215-222) . . . . .	A2-47/48
Camp-On		Account Code	
(MAP215-208) . . . . .	A2-17/18	(MAP215-223) . . . . .	A2-49/50
Consultation Hold/Transfer/Add-On		Hands-Free Station	
(MAP215-209) . . . . .	A2-19/20	(MAP215-224) . . . . .	A2-51/52
Automatic Callback - Don't Answer		Call Forwarding Busy/Don't Answer	
(MAP215-210) . . . . .	A2-21/22	(MAP215-225) . . . . .	A2-53/54
Automatic Callback - Busy		Enable Non-CO to Trunk Connect	
(MAP215-211) . . . . .	A2-23/24	(MAP215-226) . . . . .	A2-55/56
Meet Me Conference		APPENDIX 3 Console Tests . . . . .	A3-1/2
(MAP215-212) . . . . .	A2-25/26	Answer Incoming Call	
		(MAP215-300) . . . . .	A3-3
		Automatic Callback	
		(MAP215-301) . . . . .	A3-7/8

CONTENTS	PAGE
APPENDIX 3 Console Tests (Cont'd)	
Extending Internal Calls	
(MAP215-302) . . . . .	A3-9/10
Answering Recall	
(MAP215-303) . . . . .	A3-11
Override	
(MAP215-304) . . . . .	A3-13/14
Flexible Night Service	
(MAP215-305) . . . . .	A3-15/16
Trunk Busy Operation	
(MAP215-306) . . . . .	A3-17/18
Trunk Group Attendant Access	
(MAP215-307) . . . . .	A3-19/20
Trunk Group Dial Access	
(MAP215-308) . . . . .	A3-21/22
Test Termination	
(MAP215-309) . . . . .	A3-23/24
Answering Incoming CO Trunk Call	
(MAP215-310) . . . . .	A3-29
Attendant Do Not Disturb	
(MAP215-311) . . . . .	A3-33/34
Message Waiting	
(MAP215-312) . . . . .	A3-35
Attendant Call Forwarding - Busy	
(MAP215-313) . . . . .	A3-37
Attendant Call Forwarding - Don't Answer	
(MAP215-314) . . . . .	A3-39/40
Attendant Call Forwarding - Follow Me	
(MAP215-315) . . . . .	A3-41/42
Attendant Call Forwarding	
Busy/Don't Answer	
(MAP215-316) . . . . .	A3-43/44
Attendant Controlled Conference	
(MAP215-317) . . . . .	A3-45
Attendant Station Busy Out	
(MAP215-318) . . . . .	A3-47/48
Call Block	
(MAP215-319) . . . . .	A3-49
Attendant Do Not Disturb (H/M)	
(MAP215-320) . . . . .	A3-51
Message Registration	
(MAP215-321) . . . . .	A3-55/56
Controlled Outgoing Call Restriction (H/M)	
(MAP215-322) . . . . .	A3-57
Room Status	
(MAP215-323) . . . . .	A3-59
Automatic Wake-Up (Alarm Call)	
(MAP215-324) . . . . .	A3-63
Message Waiting (H/M)	
(MAP215-325) . . . . .	A3-65/66
Console Data Display and Date Utility	

CONTENTS	PAGE
APPENDIX 3 Console Tests (Cont'd)	
(MAP215-326) . . . . .	A3-67/68
Customer Program Dump/Load	
(MAP215-327) . . . . .	A3-69
Controlling the Printer	
(MAP215-328) . . . . .	A3-71/72
Room Audit	
(MAP215-329) . . . . .	A3-73/74
System Identifier	
(MAP215-330) . . . . .	A3-75/76
Common Use Speed Call	
(MAP215-331) . . . . .	A3-77/78
Customer Programming	
(MAP215-332) . . . . .	A3-79/80
External Call Forwarding	
(MAP215-333) . . . . .	A3-81/82
Test Audible Tone Indicators	
(MAP215-334) . . . . .	A3-83
Single Digit Dialing	
(MAP215-335) . . . . .	A3-85
Common Alerting Devices	
(MAP215-336) . . . . .	A3-87/88
Answer DID Trunk Call	
(MAP215-337) . . . . .	A3-89

## 1. INTRODUCTION

### General

1.01 This Section details the system test procedures to be performed after the system installation (Section MITL9105/9110-097-200-NA) and programming (Section MITL9105/9110-097-210-NA) have been completed. Upon completion of the tests listed in this Section, all programmed system options and features will have been checked.

### Reason for Reissue

1.02 This Section has been reissued to include enhancements to the extensions and console test procedures for Generic 216.



## 2. DETAILED TEST PROCEDURES

### General

2.01 All test procedures in this Section are performed in accordance with MITEL Action Procedures (MAP's). An outline of the purpose and use of MAP's is contained in Appendix 1. Actual system test procedures to be used for the PABX are as detailed in the following paragraphs.

### System Test Procedures

2.02 The System Test Procedures are divided into two appendices: Extension Tests and Console Tests. The test level relationship is given in Tables 2-1 and 2-2. Some tests may not be relevant, i.e. Hotel/Motel (H/M) options when the system is configured for a business arrangement. Tables 2-3 and 2-4 give the suggested applications of these tests as Hotel/Motel (H/M) and Business. Note: that in some situations some

systems may use Options that seem out of context to the Hotel/Motel and Business sections, however the relevant test should still be performed for these options.

2.03 Where several customers (tenants) share one PABX then the test procedures to be performed (listed in Tables 2-1, 2-2, 2-3 and 2-4) are in respect to the "Non-Hotel/Motel" options, i.e. they are the same as for a single customer configuration. It should be noted however that the console SOURCE and DESTINATION displays, during the test procedures, will reflect the fact that a multi-tenant configuration is in effect. These displays will show the "tenant" digit which prefixes the extension number. A typical example of this difference is illustrated in Figs. 2-1 and 2-2, respectively showing a single customer extension display, and a display which indicates that the calling extension (333) forms part of Tenant group 2.

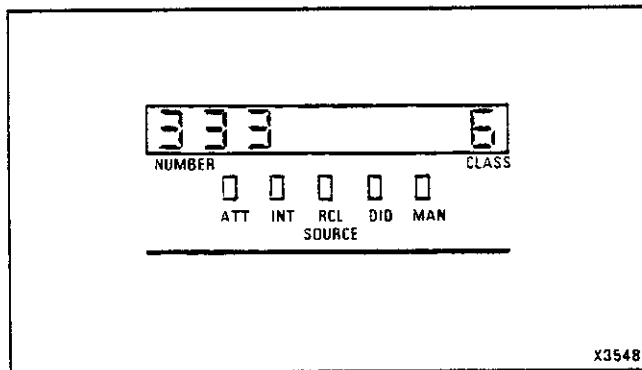


Fig. 2-1 Single Customer Display

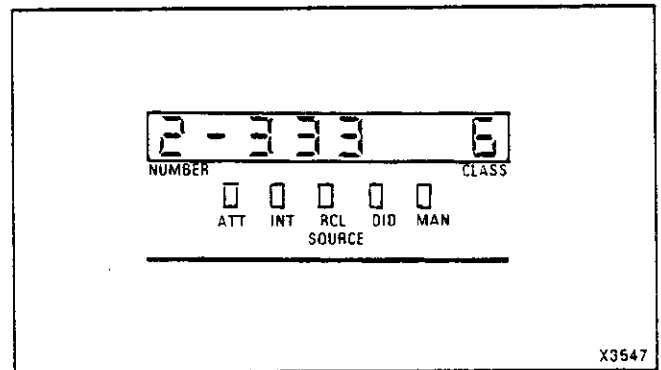


Fig. 2-2 Multi-Tenant Display

TABLE 2-1 EXTENSION TESTS

TEST	APPLICATION
Set Up Test Equipment	All
Broker's Call	All
Call Forwarding - Busy	All
Call Forwarding - Don't Answer	All
Call Forwarding - Follow Me	All
Call Park	All
Call Pickup	All
Camp-On	All
Consultation Hold/Transfer/Add-On	All
Automatic Callback - Don't Answer	All
Automatic Callback - Busy	All
Meet Me Conference	All
Executive Busy Override	All
Paging	All
Do Not Disturb	All
Call Hold	All
Room Status	H/M
Automatic Wake-Up (Alarm Call)	H/M
Personal Speed Call	H/M
Common Use Speed Call	Business
External Call Forwarding	All
Transfer with Privacy	All
Account Code	Business
Hands-Free Station	All
Call Forwarding Busy/Don't Answer	All
Enable Non-CO to Trunk Connect	All

TABLE 2-2 CONSOLE TESTS

TEST	APPLICATION
Answer Incoming Call	All
Automatic Callback	All
Extending Internal Calls	All
Answering Recall	All
Override	All
Flexible Night Service	All
Trunk Busy Operation	All
Trunk Group Attendant Access	All
Trunk Group Dial Access	All
Test Termination	All
Answer Incoming CO Trunk Call	All
Attendant Do Not Disturb	All
Message Waiting	All
Attendant Call Forwarding - Busy	All
Attendant Call Forwarding - Don't Answer	All
Attendant Call Forwarding - Follow Me	All
Attendant Call Forwarding Busy/Don't Answer	All
Attendant Controlled Conference	All
Attendant Station Busy Out	All
Call Block	H/M
Attendant Do Not Disturb	All
Message Registration	H/M
Controlled Outgoing Call Restriction	All
Room Status	H/M
Automatic Wake-Up (Alarm Call)	H/M
Message Waiting H/M	H/M
Console Date Display and Date Utility	All
Customer Program Dump Load	All
Controlling the Printer	All
Room Audit	H/M
System Identifier	All
Common Use Speed Call	Business
Customer Programming	All
External Call Forwarding	All
Test Audible Tone Indicators	All

TABLE 2-3 EXTENSION APPLICATIONS

TEST	APPLICATION
Set Up Test-Equipment	Both
Broker's Call	Business
Call Forwarding - Busy	Business
Call Forwarding - Don't Answer	Business
Call Forwarding - Follow Me	Business
Call Park	Business
Call Pickup	Business
Camp-On	Business
Consultation Hold/Transfer/Add-On	Business
Automatic Callback - Don't Answer	Business
Automatic Callback - Busy	Business
Meet Me Conference	Business
Executive Busy Override	Business
Paging	Business
Do Not Disturb	Both
Call Hold	Business
Room Status	H/M
Automatic Wake-Up (Alarm Call)	H/M
Personal Speed Call	Business
Common Use Speed Call	Business
External Call Forwarding	Business
Transfer with Privacy	Business
Account Code	Business
Hands-Free Station	Business
Call Forwarding Busy/Don't Answer	Business
Enable Non-CO to Trunk Connect	Business

TABLE 2-4 CONSOLE APPLICATION

TEST	APPLICATION
Answer Incoming Call	Both
Automatic Callback	Both
Extending Internal Calls	Both
Answering Recall	Both
Override	Business
Flexible Night Service	Both
Trunk Busy Operation	Both
Trunk Group Attendant Access	Both
Trunk Group Dial Access	Both
Test Termination	Both
Answer Incoming CO Trunk Call	Both
Attendant Do Not Disturb	Both
Message Waiting	H/M
Attendant Call Forwarding - Busy	Business
Attendant Call Forwarding - Don't Answer	Business
Attendant Call Forwarding - Follow Me	Business
Attendant Call Forwarding Busy/Don't Answer	Business
Attendant Controlled Conference	Business
Attendant Station Busy Out	Both
Call Block	H/M
Attendant Do Not Disturb	H/M
Message Registration	H/M
Controlled Outgoing Call Restriction	H/M
Room Status	H/M
Automatic Wake-Up (Alarm Call)	H/M
Message Waiting H/M	H/M
Console Date Display and Date Utility	Both
Customer Program Dump Load	Both
Controlling the Printer	Both
Room Audit	H/M
System Identifier	Both
Common Use Speed Call	Business
Customer Programming	Both
External Call Forwarding	Business
Test Audible Tone Indicators	Both



## APPENDIX 1

### MITEL ACTION PROCEDURES

#### GENERAL

**A1.01** Task oriented functions in this section are implemented using MITEL ACTION PROCEDURES (MAP's).

**A1.02** A MAP is a step by step procedure using a flow chart principle, written and illustrated where necessary to a level of detail that allows both experienced and inexperienced personnel to carry out the tasks detailed. A MAP contains two levels of information as follows:

- (a) For experienced personnel, a series of steps (level one) each numbered (n) and annotated with minimal information.
- (b) For inexperienced personnel, each step referred to in (a) above is amplified by a connected series of numbered substeps (nA) (level two).

**A1.03** A typical example of a MAP is shown in Fig. A1-1, with the two levels detailed.

#### MAP SYMBOLS

**A1.04** There are four basic symbol shapes which may be used in a MAP, and are defined as follows.

**A1.05 AND Block:** Used to indicate a level one step that must be performed. Consists of a square with the word AND centred in the block.

**A1.06 OR Block:** Used to indicate a choice of level one steps, one of which must be performed. Consists of a rectangle, with the text centred in the block, and with the word OR appearing between the alternative operations.

**A1.07** The rectangle is also used to border instructions which imply that the operative must perform a task outside the scope of the MAP. The text is centred in the rectangle.

**A1.08 DECISION Block:** Used to indicate a decision within the level one steps which must be made. The symbol is based on a hexagon with the top and bottom sides extended. Decision text is centred in the symbol.

**A1.09 START/FINISH/JUMP TO Block:** Used to indicate the start and finish of a MAP. Also used to indicate "jump to" points within the MAP, for example "go to (n)" or "from (n)" or "return to (n)". The symbol is a rectangle with semi-circular ends. Text is centred in the symbol.

#### THE OPERATORS USE OF MAP'S

##### Experienced Operator

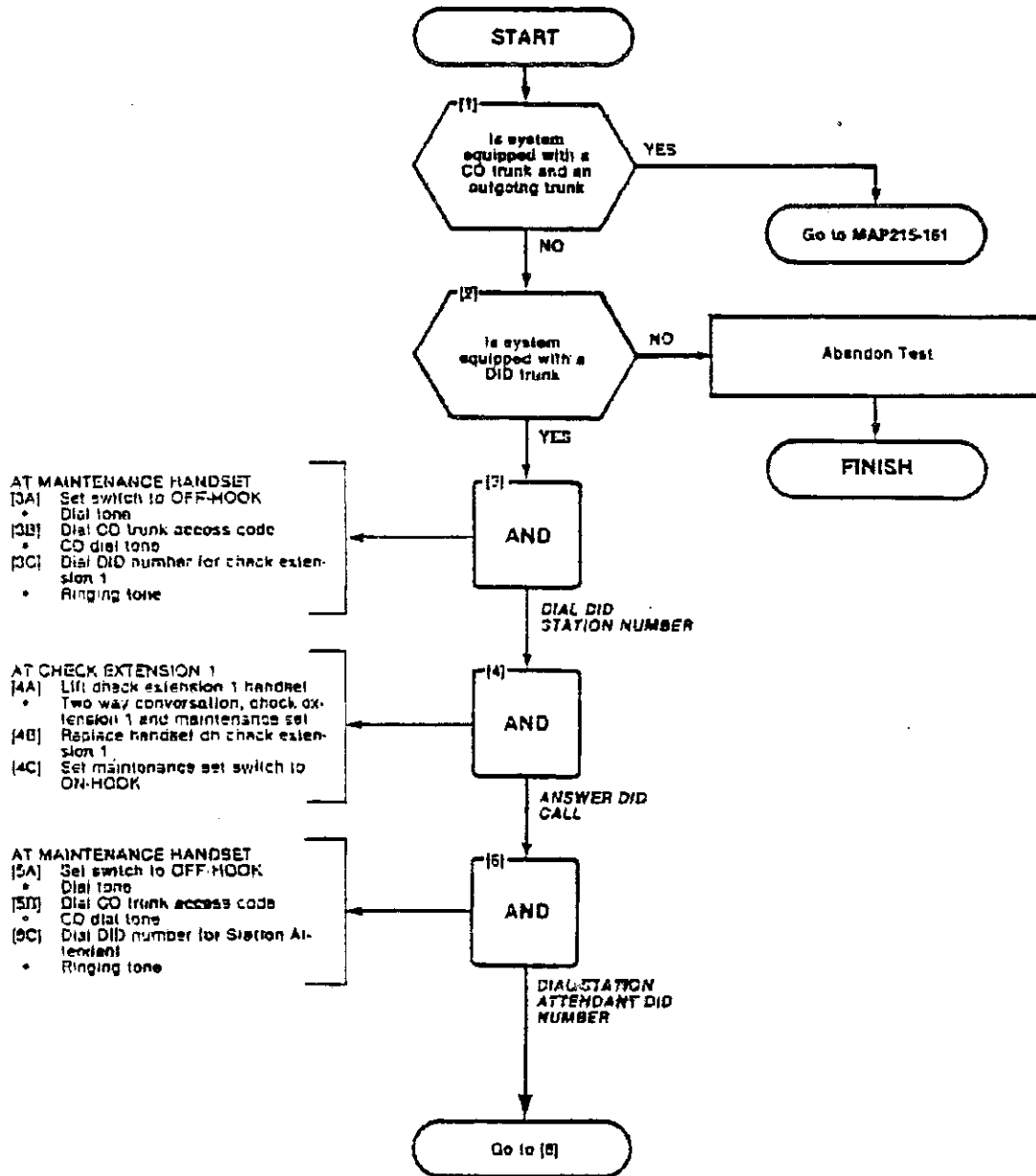
**A1.10** For the experienced operator to complete a task using a MAP, reference to the sequential short form level one steps is usually all that is necessary. Using Fig. A1 as an example, the experienced operator would proceed as follows.

**A1.11** A (1) makes a decision based on the information within the block. If the answer is YES, the operator must proceed to a different MAP. If the answer is NO, the operator is faced with another decision at block (2).

**A1.12** At (2) if the decision is NO, there is no requirement to proceed further and the test is abandoned. This naturally results in a FINISH block. If the decision is YES, the operator proceeds to (3) and (4) in succession, i.e. dials the DID station number and completes the call to the check extension.

**A1.13** The description of the instructions carried out in A1.05 and A1.06 have assumed that the level of competence of the operator is such that short form level one steps contain sufficient information, and therefore the operator reads only the centre column of the MAP, top to bottom of the page.

ANSWER DID TRUNK CALL
MAP215-152
Issue 1, January 80
Sheet 1 of 2



AS 25

M110

Fig. A1-1 Typical MAP Page



**Inexperienced Operator**

**A1.14** If the operator's experience is such that the level two substeps should be referred to as follows.

- (a) At (1) and (2) make the decisions called for at these steps as before.
- (b) At step (3) dial the DID station number by performing substeps (3A), (3B) and (3C).

In terms of steps and substeps, the operative follows a decision, decision then step and substep paths in the example shown.

**TOOLS, TEST EQUIPMENT AND SPECIAL INSTRUCTIONS**

**A1.16** Any tools, test equipment or special instructions that the operator required or needs to know are stated on the first page of each MAP. If the MAP is long, and contains a number of sub procedures, these are listed in synopsis form on the first page.



## APPENDIX 2

### EXTENSION TESTS

A2.01 The following test are a series of extension tests. Specific reference should be made to Table 2-1 and Table 2-3. These Tables will determine the Generic level applicable and if the test is relevant to the system application.

TABLE A2-1 EXTENSION TESTS

ORDER	OPTION	MAP No.
1	Set Up Test Equipment	215-201
2	Broker's Call	215-202
3	Call Forwarding - Busy	215-203
4	Call Forwarding - Don't Answer	215-204
5	Call Forwarding - Follow Me	215-205
6	Call Park	215-206
7	Call Pickup	215-207
8	Camp-On	215-208
9	Consulation Hold/Transfer/Add-On	215-209
10	Automatic Callback - Don't Answer	215-210
11	Automatic Callback - Busy	215-211
12	Meet Me Conference	215-212
13	Executive Busy Override	215-213
14	Paging	215-214
15	Do Not Disturb	215-215
16	Call Hold	215-216
17	Room Status	215-217
18	Automatic Wake-Up (Alarm Call)	215-218
19	Common Use Speed Call	215-219
20	Personal Speed Call	215-220
21	External Call Forwarding	215-221
22	Transfer with Privacy	215-222
23	Account Code	215-223
24	Hands-Free Station	215-224
25	Call Forwarding Busy/Don't Answer	215-225
26	Enable Non-CO to Trunk Connect	215-226



SET UP TEST EQUIPMENT
MAP215-201
Issue 2, February 1982
Sheet 1 of 2

**TEST EQUIPMENT REQUIRED**  
 Maintenance Handset (BUTT-IN)  
 Console  
 1, 2 and 3 Telephone Sets (Check Ex-  
 tensions located within reach of  
 equipment cabinet)

- [1A] Unlock and open cabinet door on cabinet versions  
**ON MAINTENANCE PANEL**  
 [1B] Connect maintenance handset Tip lead to TIP stud (Fig. 201-1)  
 [1C] Connect maintenance handset Ring lead to RING stud  
 [1D] Insert console connector into MAINTENANCE CONNECTOR  
**AT CHECK EXTENSION 1, 2, AND 3**  
 [1E] Connect check extension Tip and Ring lead to TIP and RING pins on CROSS CONNECT FIELD

**Note: Check extension must have access to all features to be tested.**

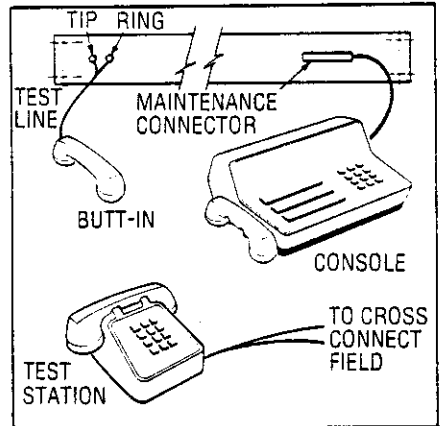


Fig. 201-1

- AT MAINTENANCE HANDSET**  
 [2A] Set switch to OFF-HOOK  
 • Dial tone  
 [2B] Dial 0  
 • Ringing tone  
 • Console rings  
**AT CONSOLE**  
 [2C] Press ANSWER  
 • SOURCE display shows number and class-of-service of test line, ATT lamp lit  
 [2D] Note number of test line  
 [2E] Press RELEASE  
 [2F] Set maintenance handset switch to ON-HOOK

START

[1]  
 AND

CONNECT TEST EQUIPMENT (FIG. 201-1)

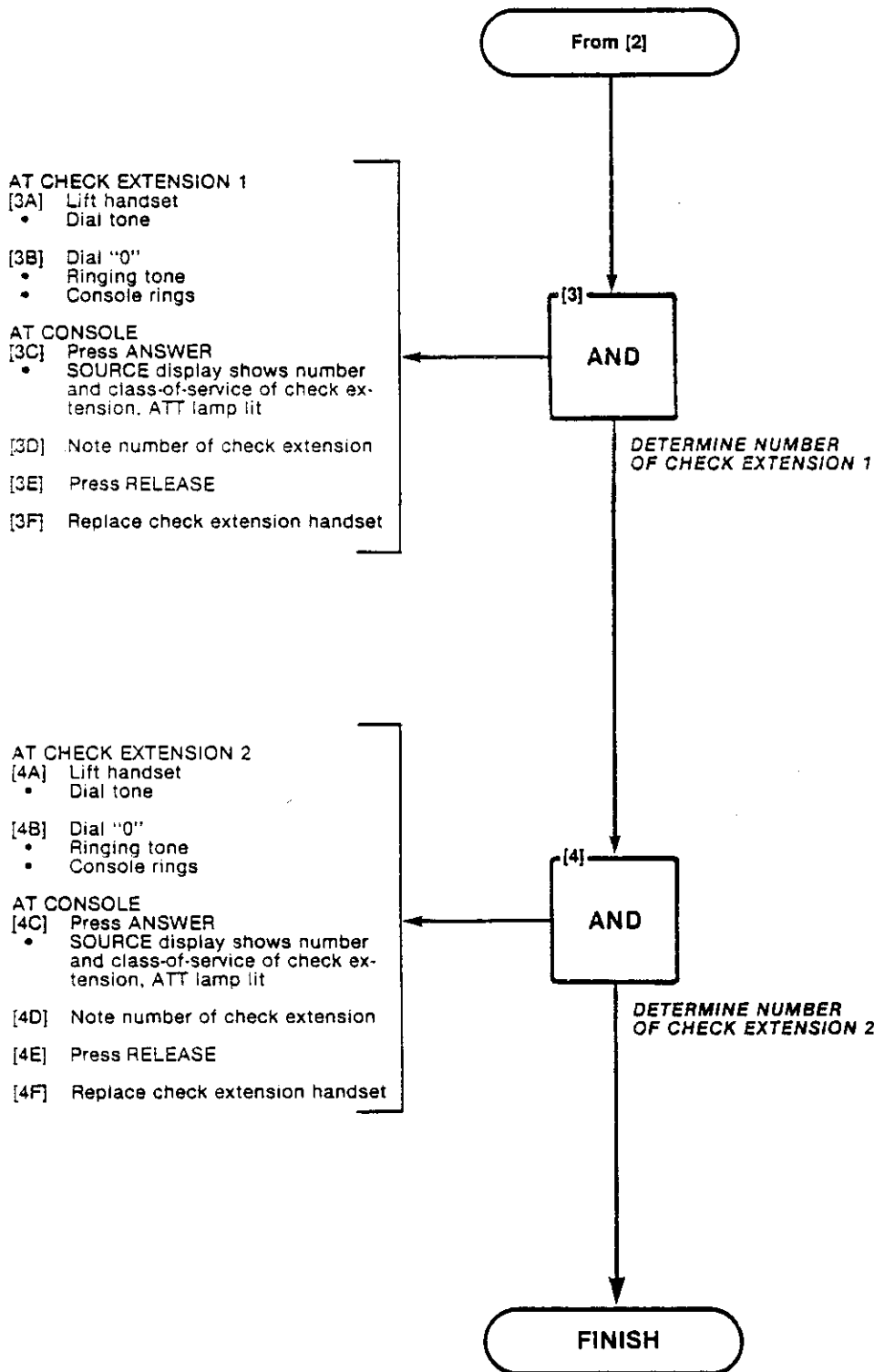
[2]  
 AND

DETERMINE NUMBER OF TEST LINE

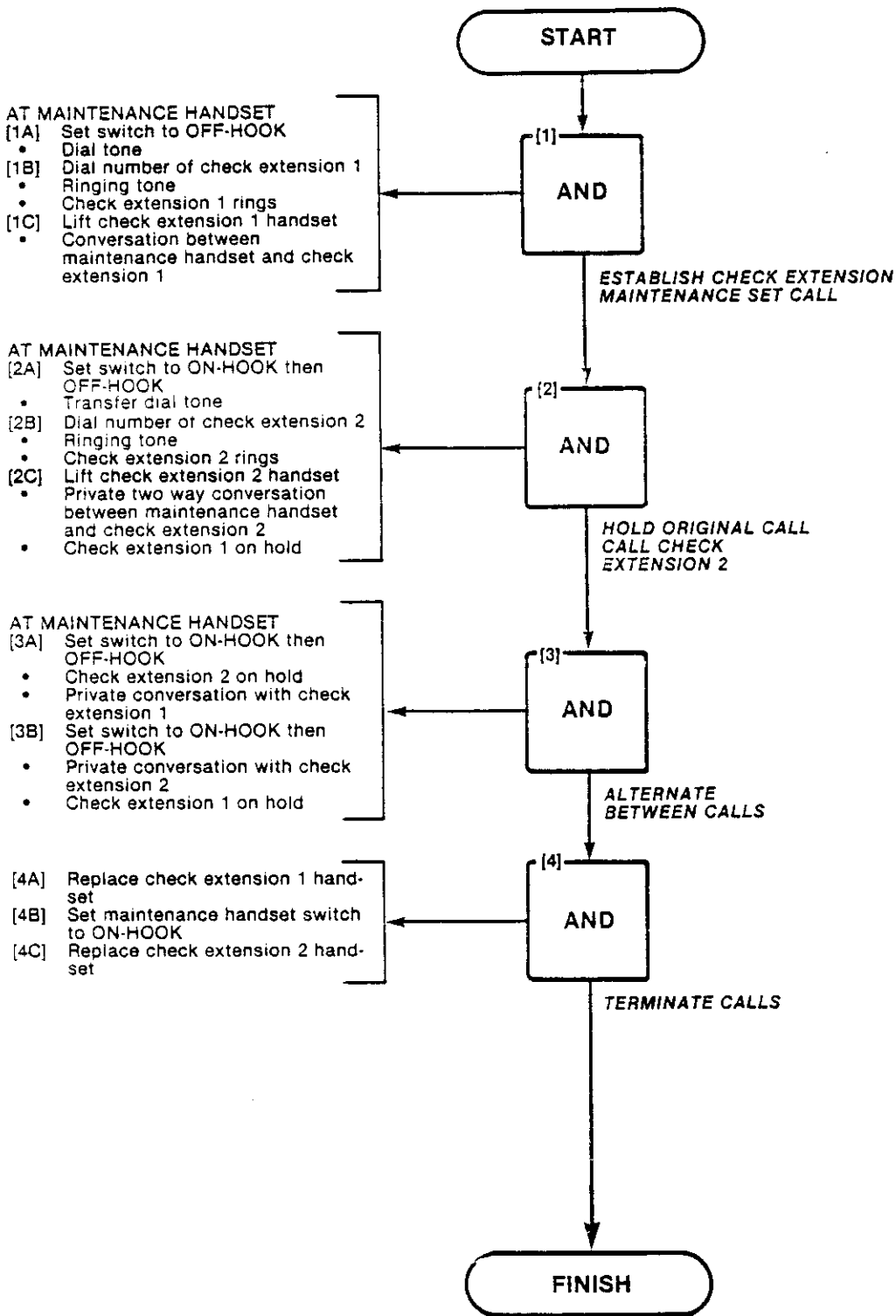
Go to [3]

SECTION MITL9105/9110-097-215-NA

SET UP TEST EQUIPMENT
MAP215-201
Issue 2, February 1982
Sheet 2 of 2



BROKER'S CALL
MAP215-202
Issue 1, August 1981
Sheet 1 of 1





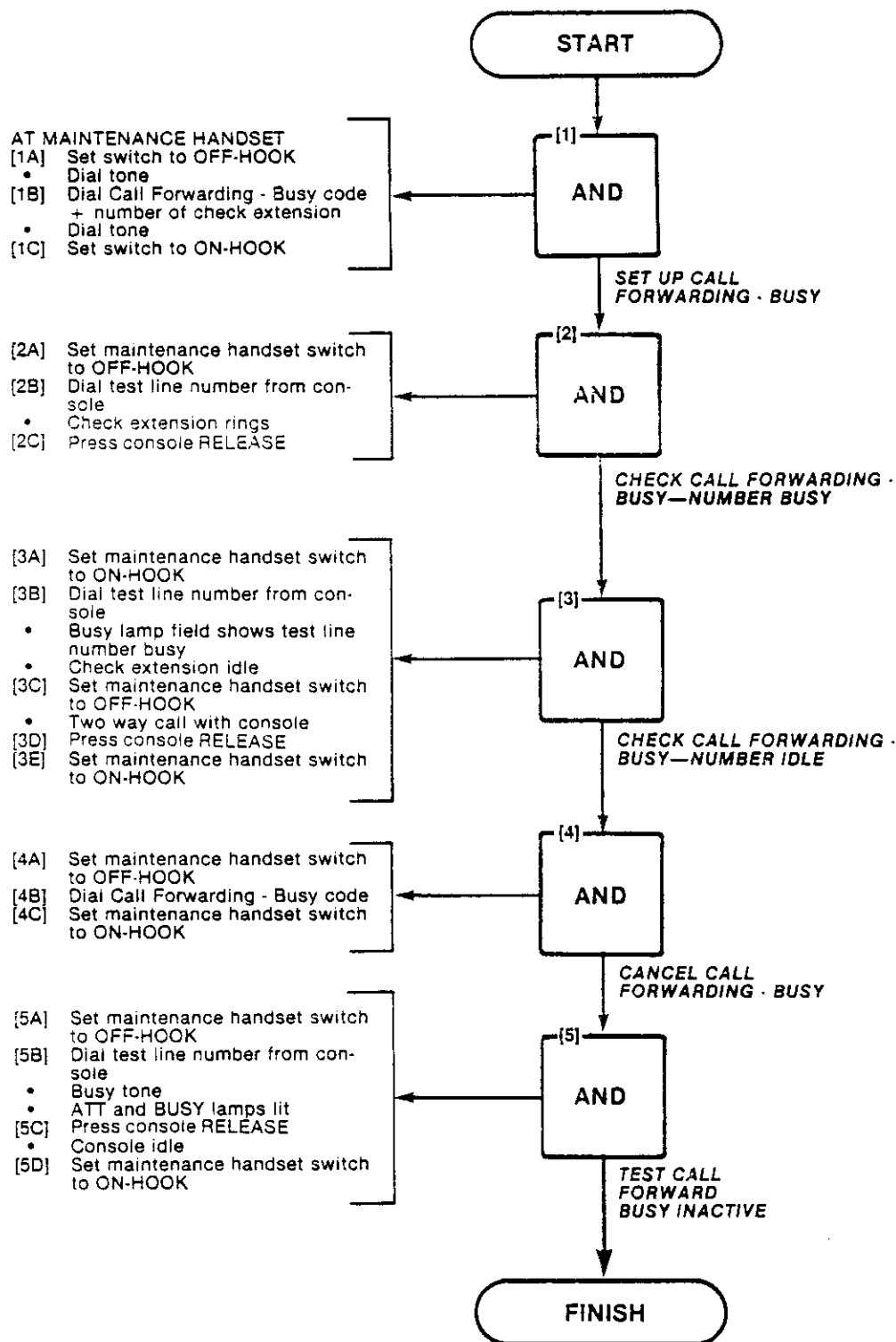


CALL FORWARDING - BUSY

MAP215-203

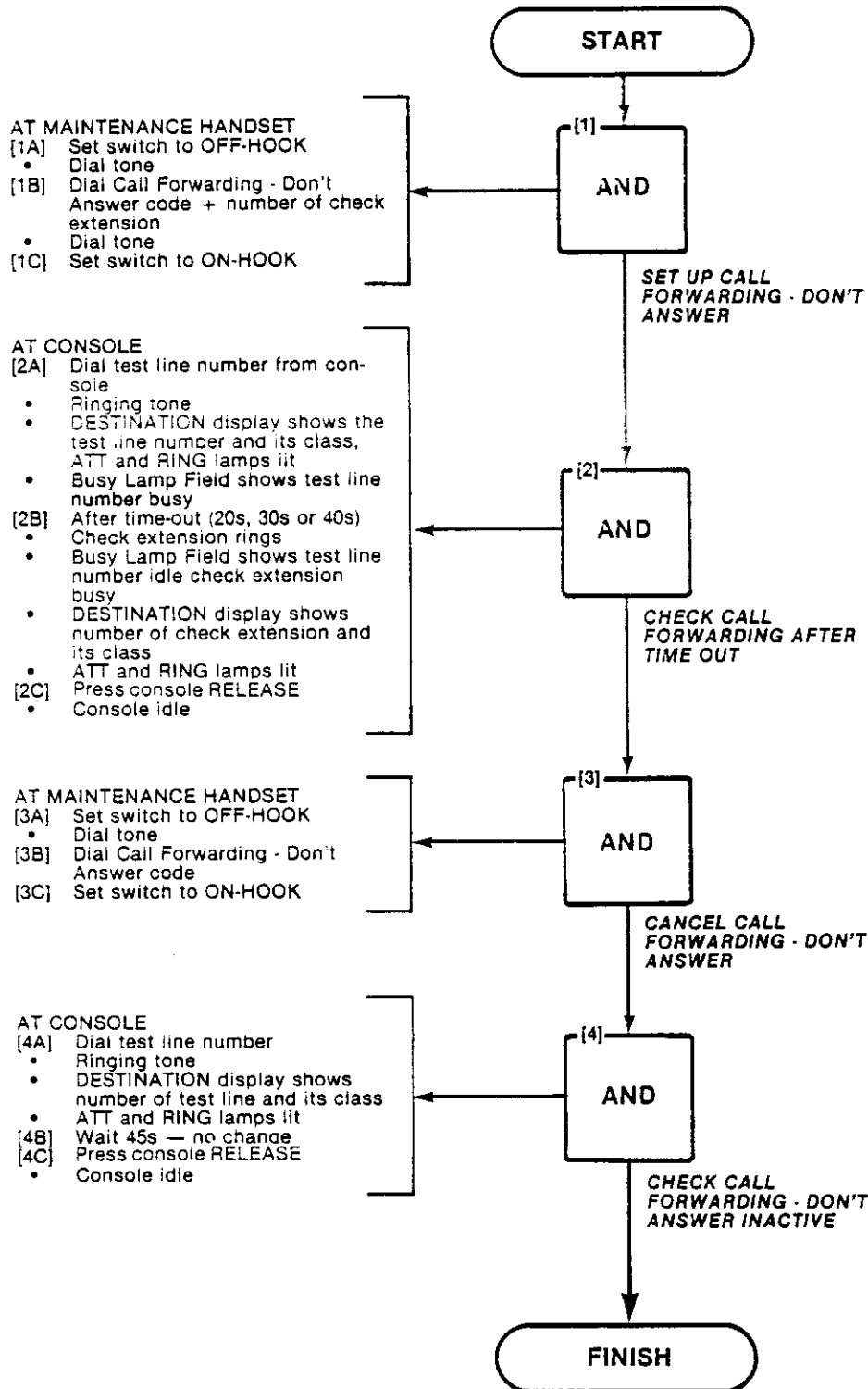
Issue 1, August 1981

Sheet 1 of 1



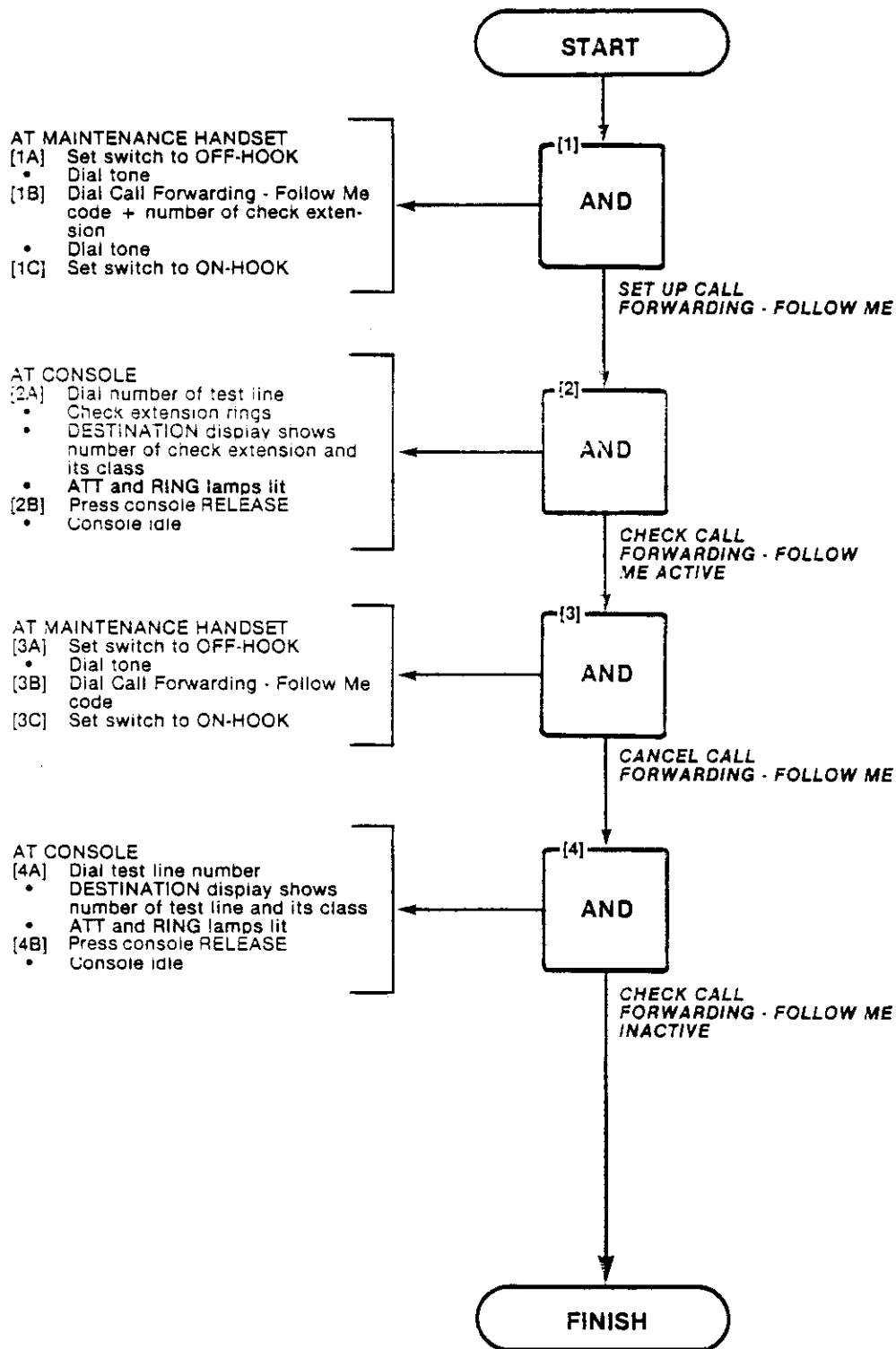


CALL FORWARDING - DON'T ANSWER
MAP215-204
Issue 1, August 1981
Sheet 1 of 1



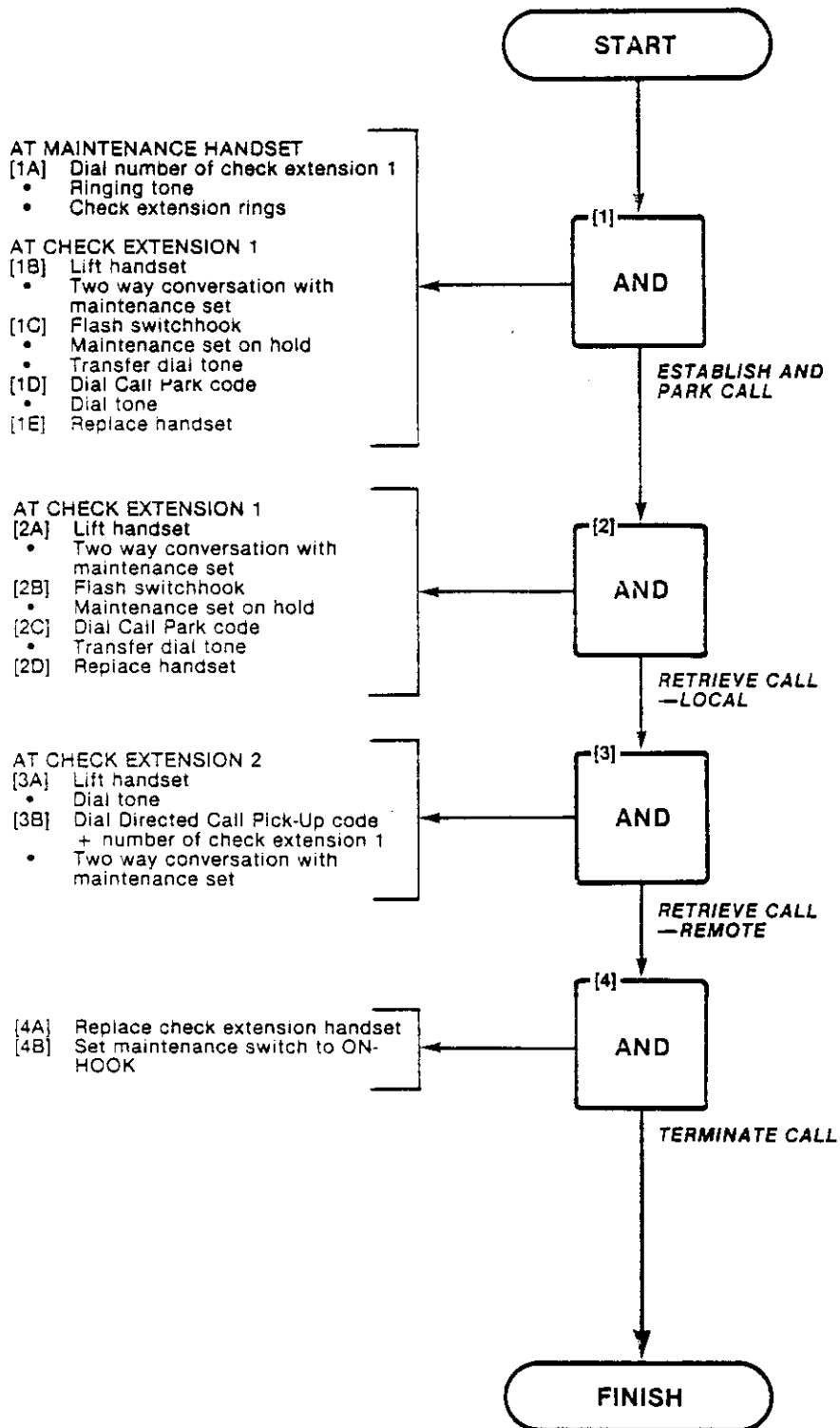


CALL FORWARDING - FOLLOW ME
MAP215-205
Issue 1, August 1981
Sheet 1 of 1





CALL PARK
MAP215-206
Issue 1, August 1981
Sheet 1 of 1





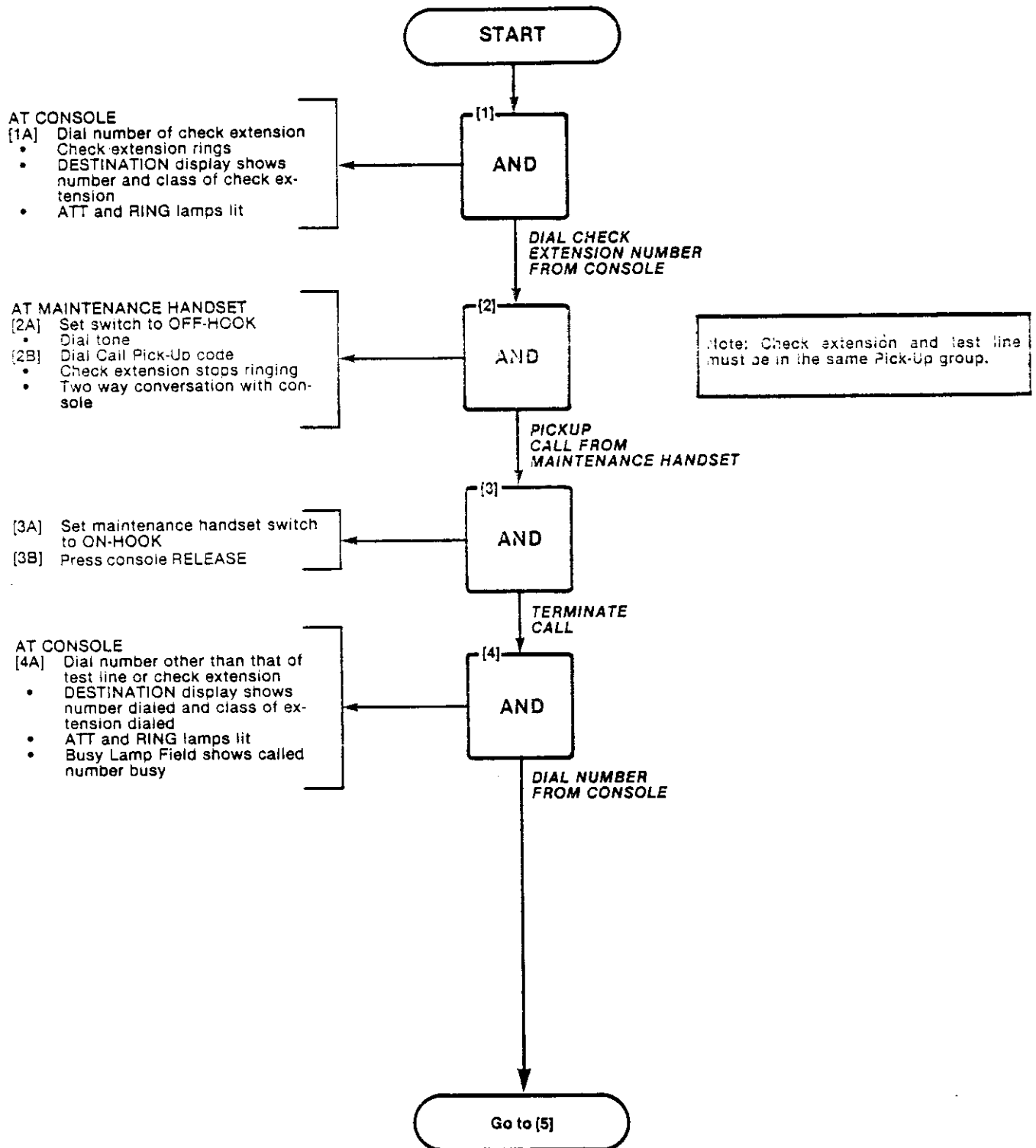


CALL PICK-UP

MAP215-207

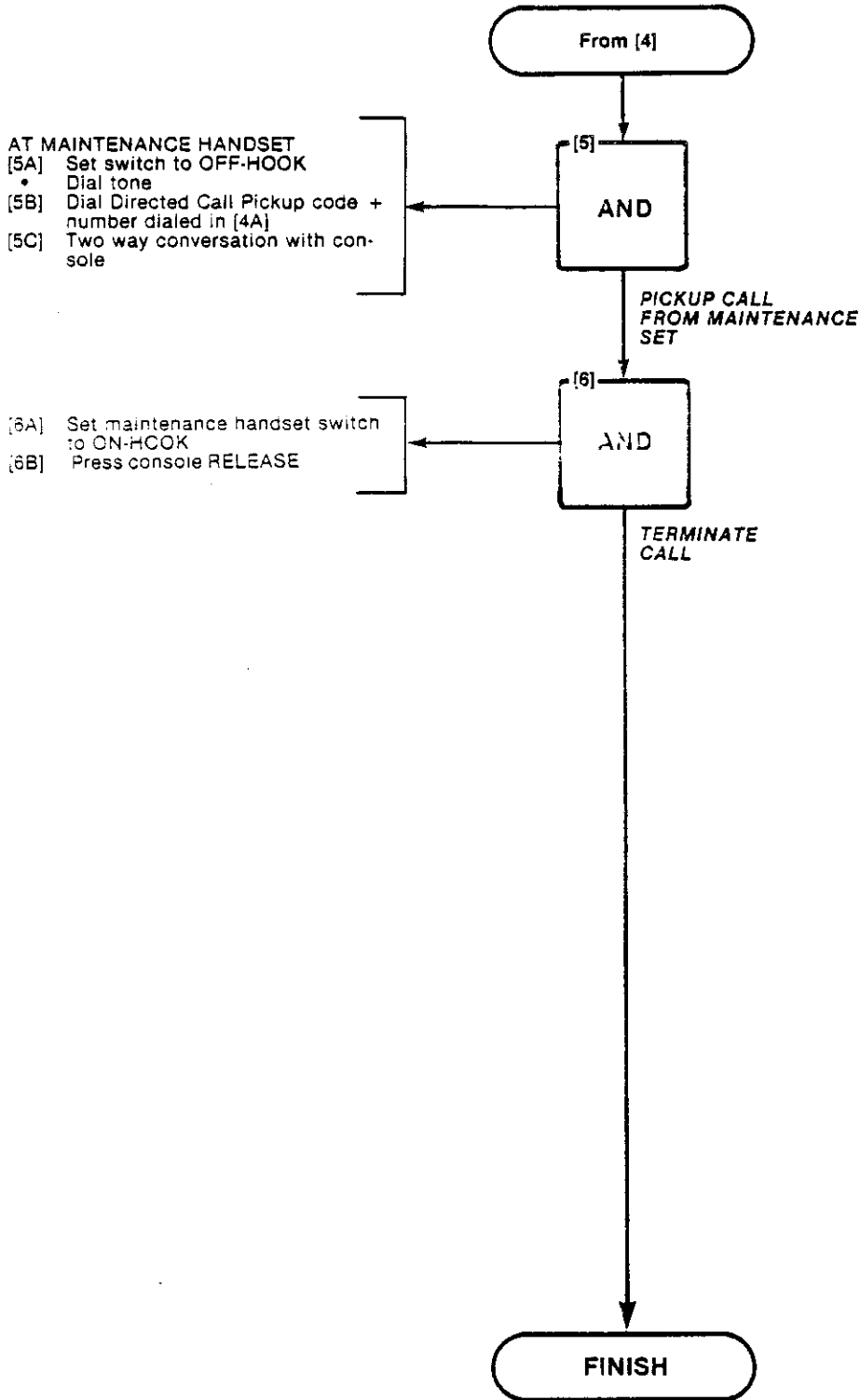
Issue 1, August 1981

Sheet 1 of 2

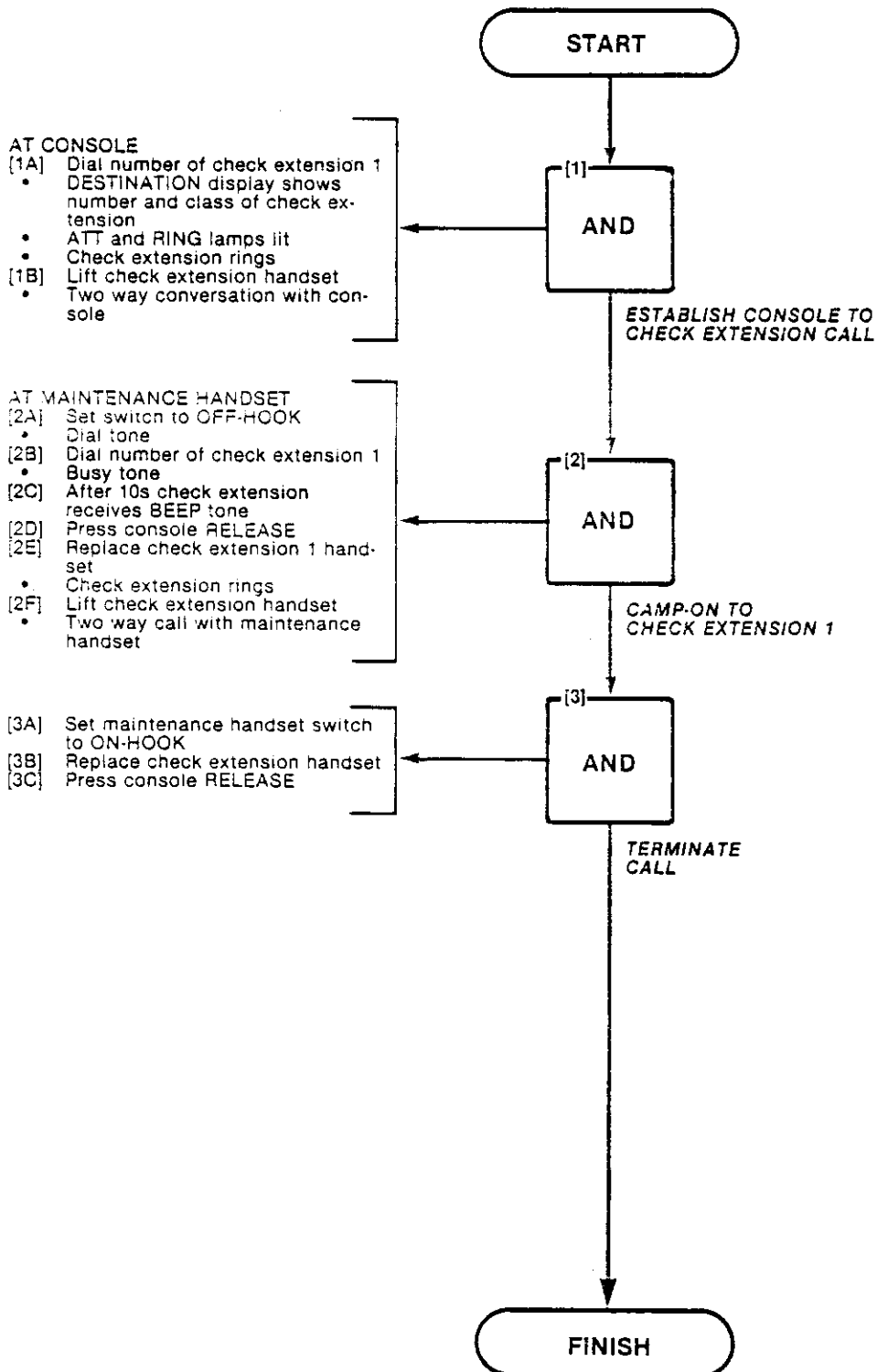


SECTION MITL9105/9110-097-215-NA

CALL PICK-UP
MAP215-207
Issue 1, August 1981
Sheet 2 of 2

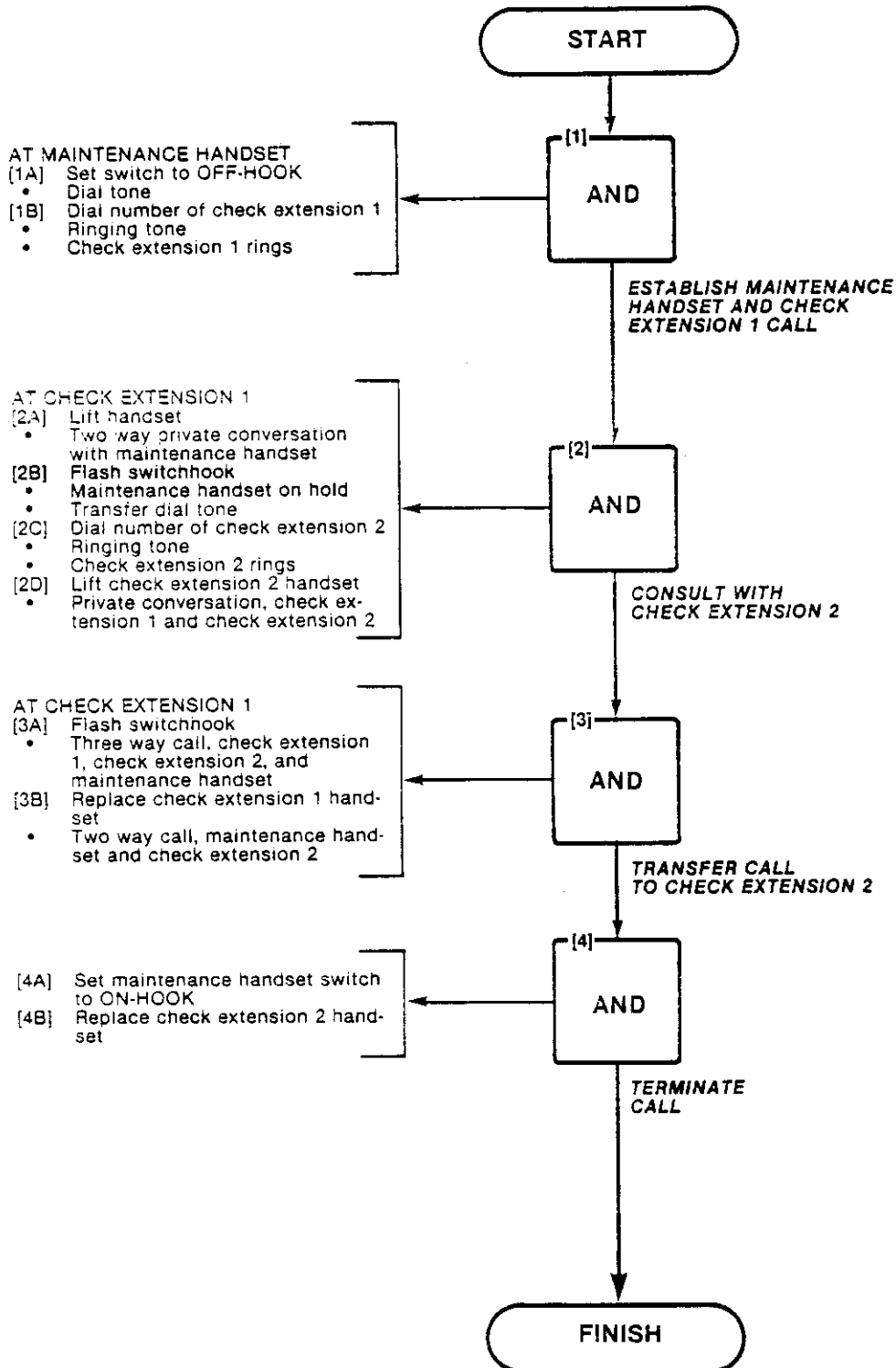


CAMP-ON
MAP215-208
Issue 1, August 1981
Sheet 1 of 1





CONSULTATION HOLD/TRANSEFER/ADD-ON
MAP215-209
Issue 1, August 1981
Sheet 1 of 1



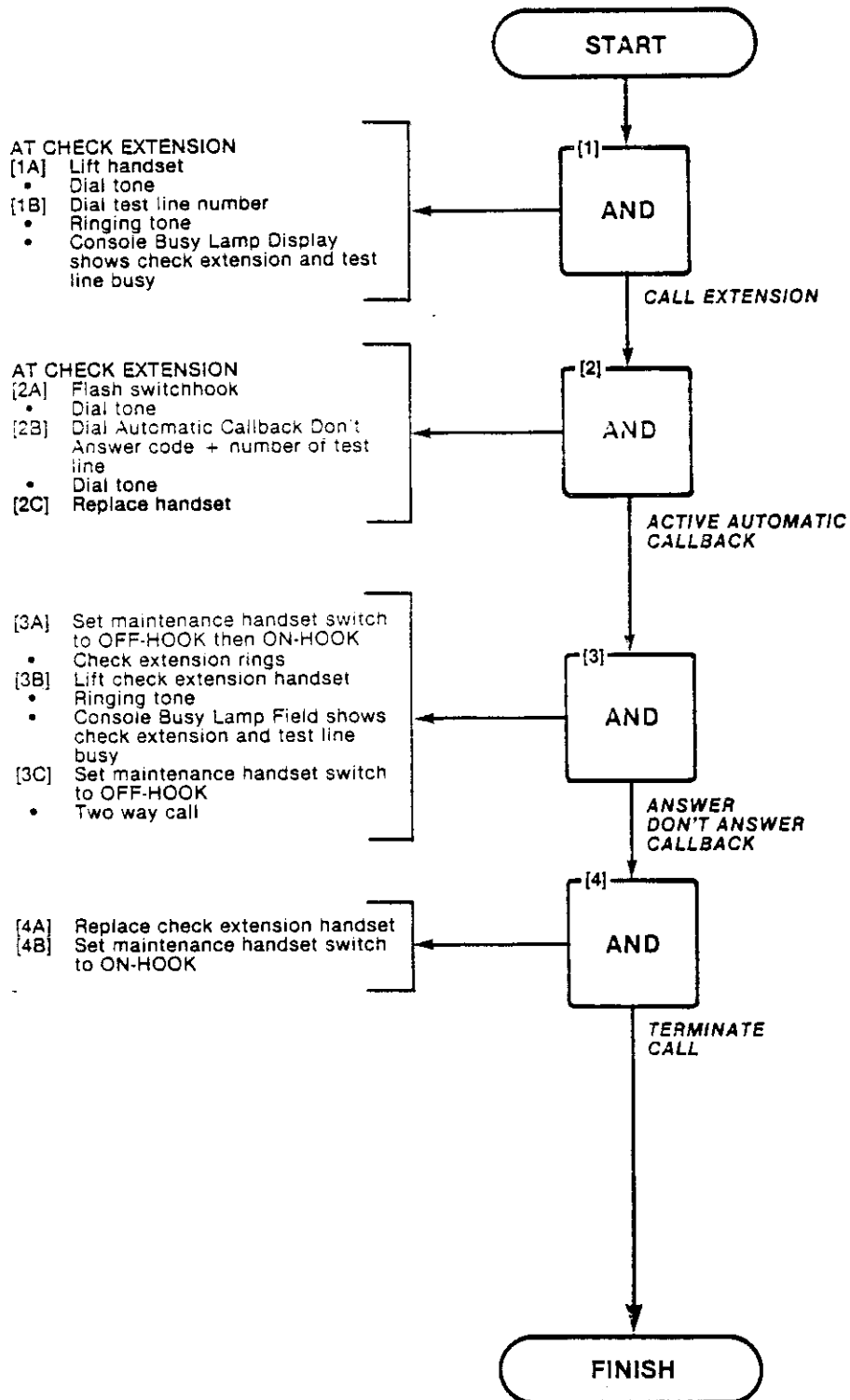


AUTOMATIC CALLBACK - DON'T ANSWER

MAP215-210

Issue 2, February 1982

Sheet 1 of 1





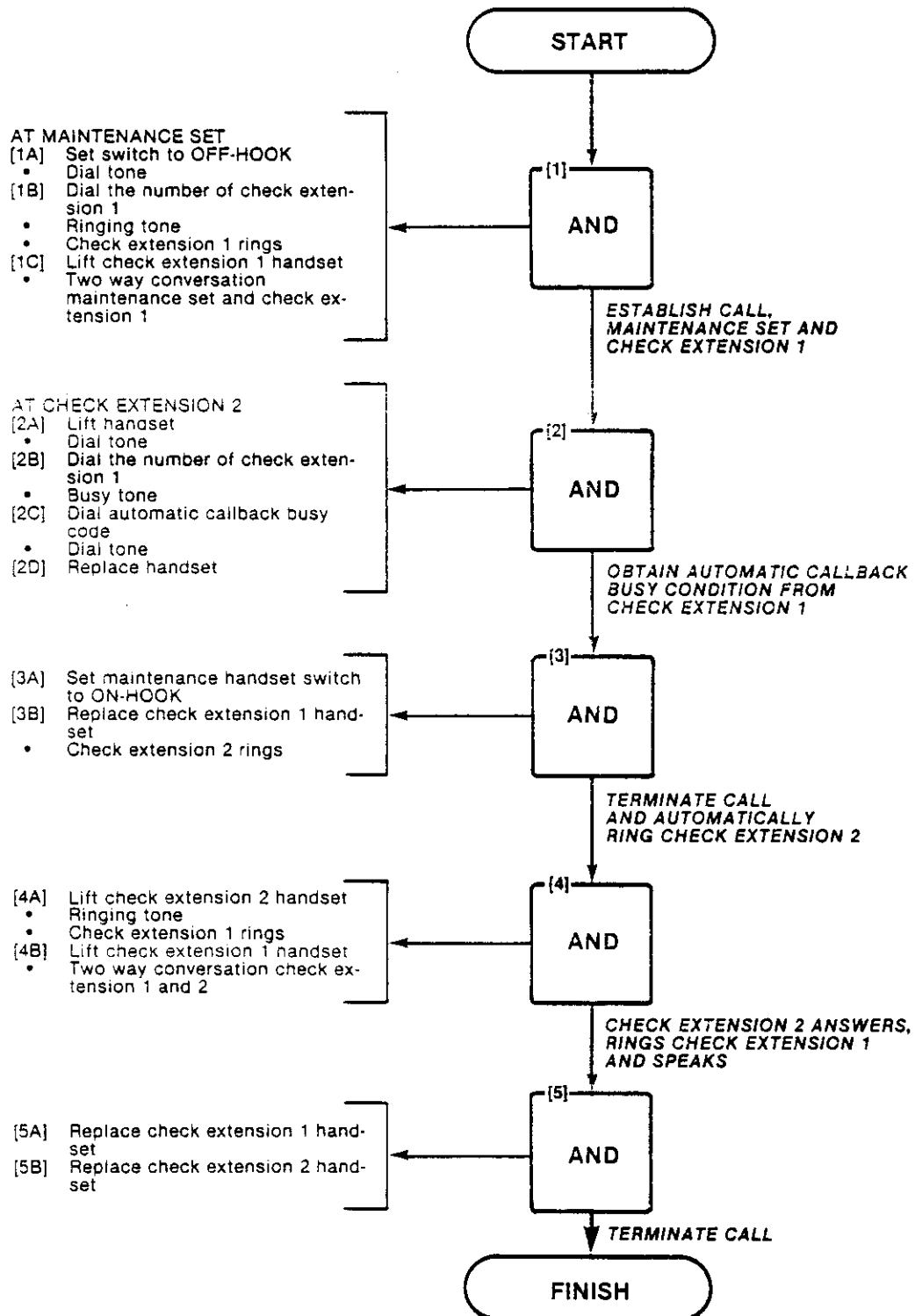


AUTOMATIC CALLBACK - BUSY

MAP215-211

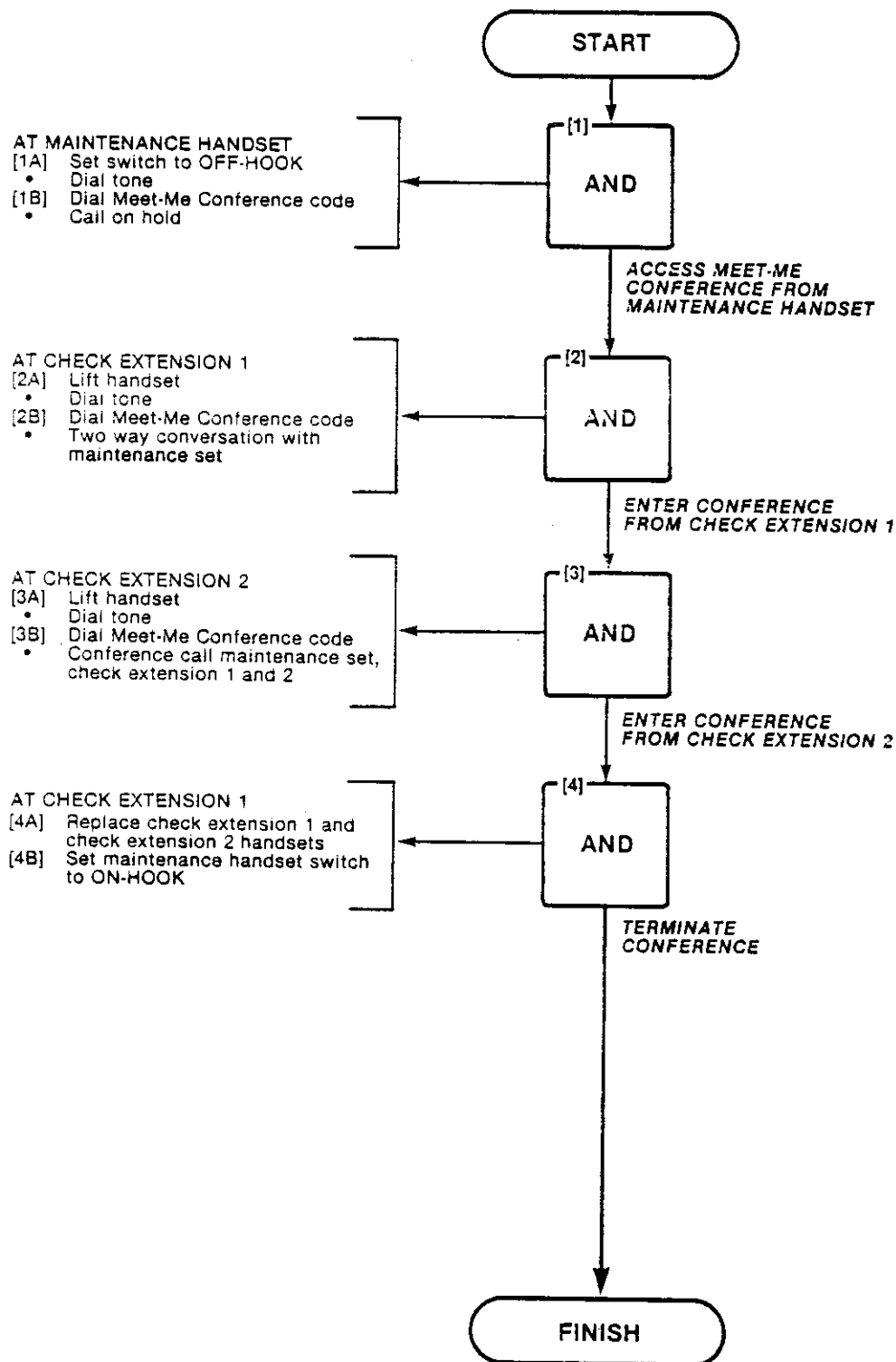
Issue 2, February 1982

Sheet 1 of 1



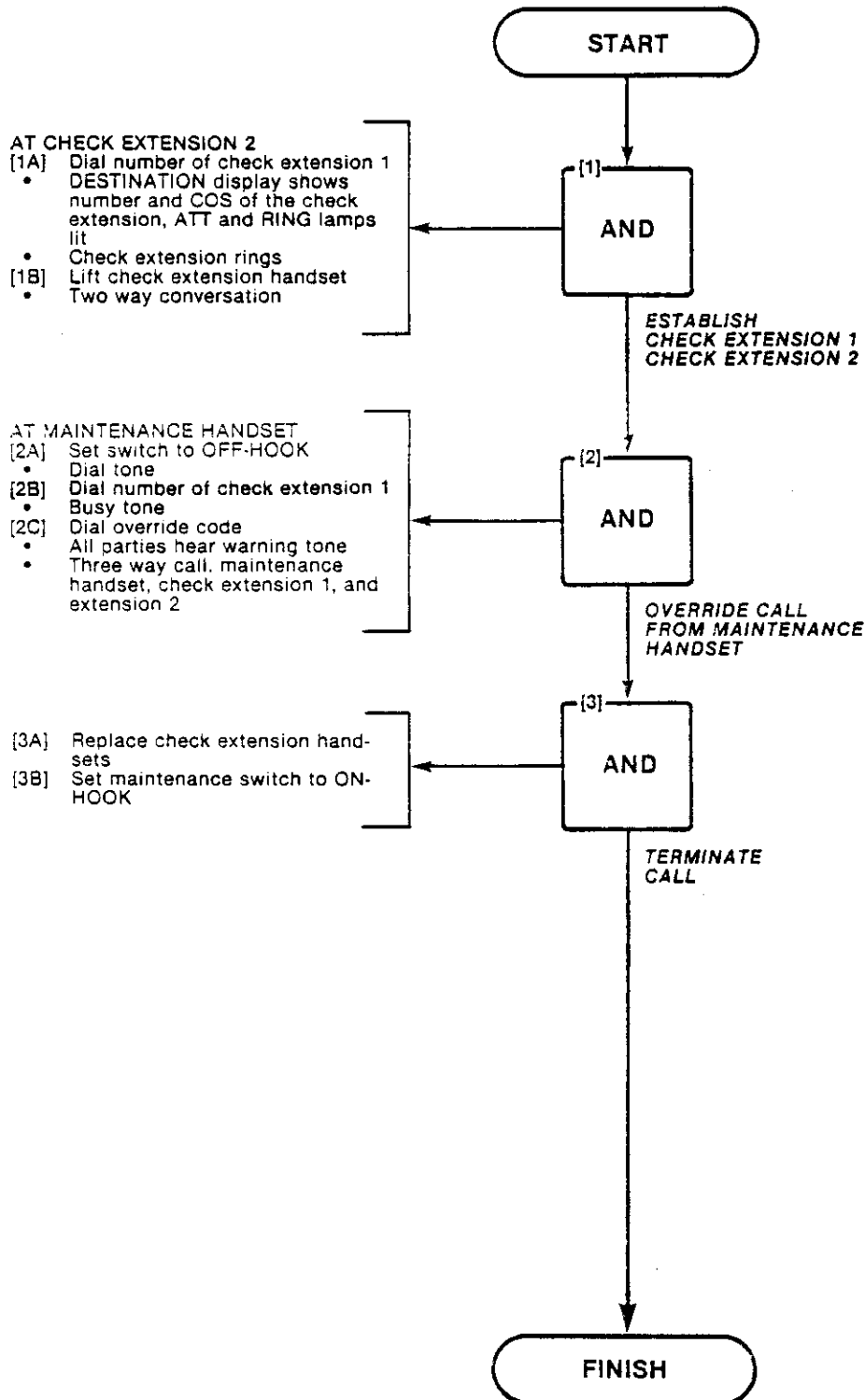


MEET-ME CONFERENCE
MAP215-212
Issue 1, August 1981
Sheet 1 of 1



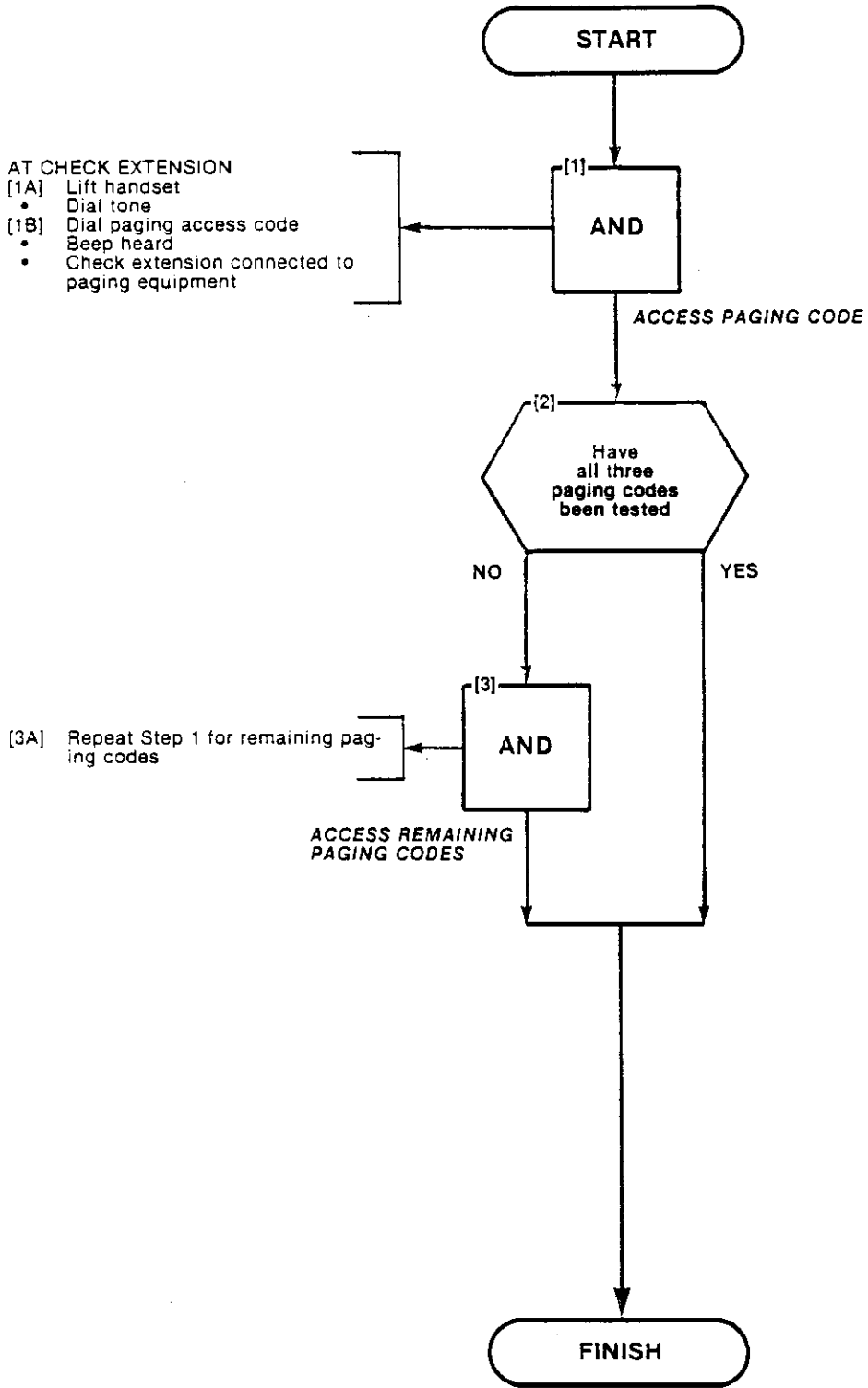


EXECUTIVE BUSY OVERRIDE
MAP215-213
Issue 2, February 1982
Sheet 1 of 1





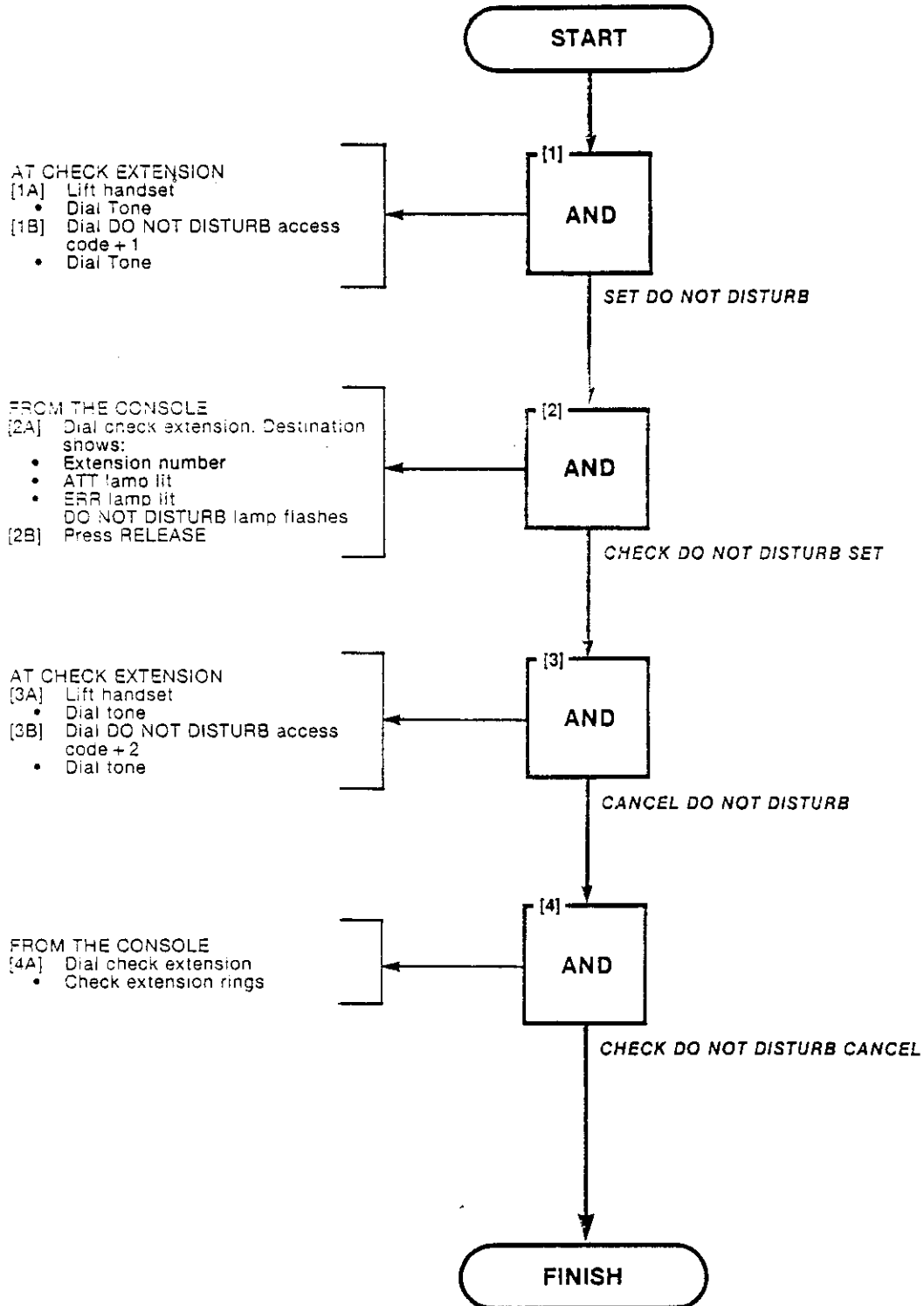
PAGING
MAP215-214
Issue 1, August 1981
Sheet 1 of 1





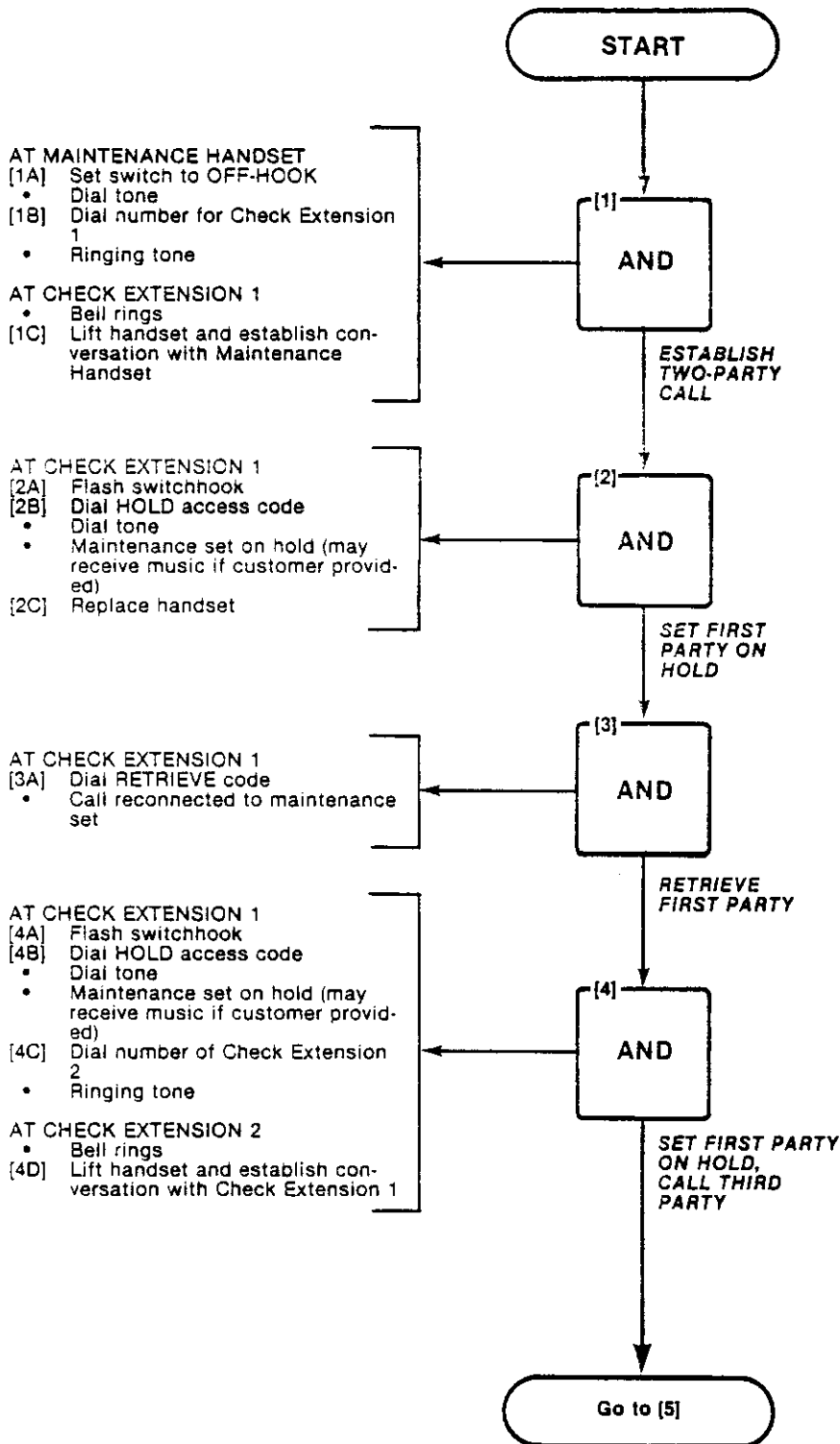


DO NOT DISTURB
MAP215-215
Issue 1, August 1981
Sheet 1 of 1



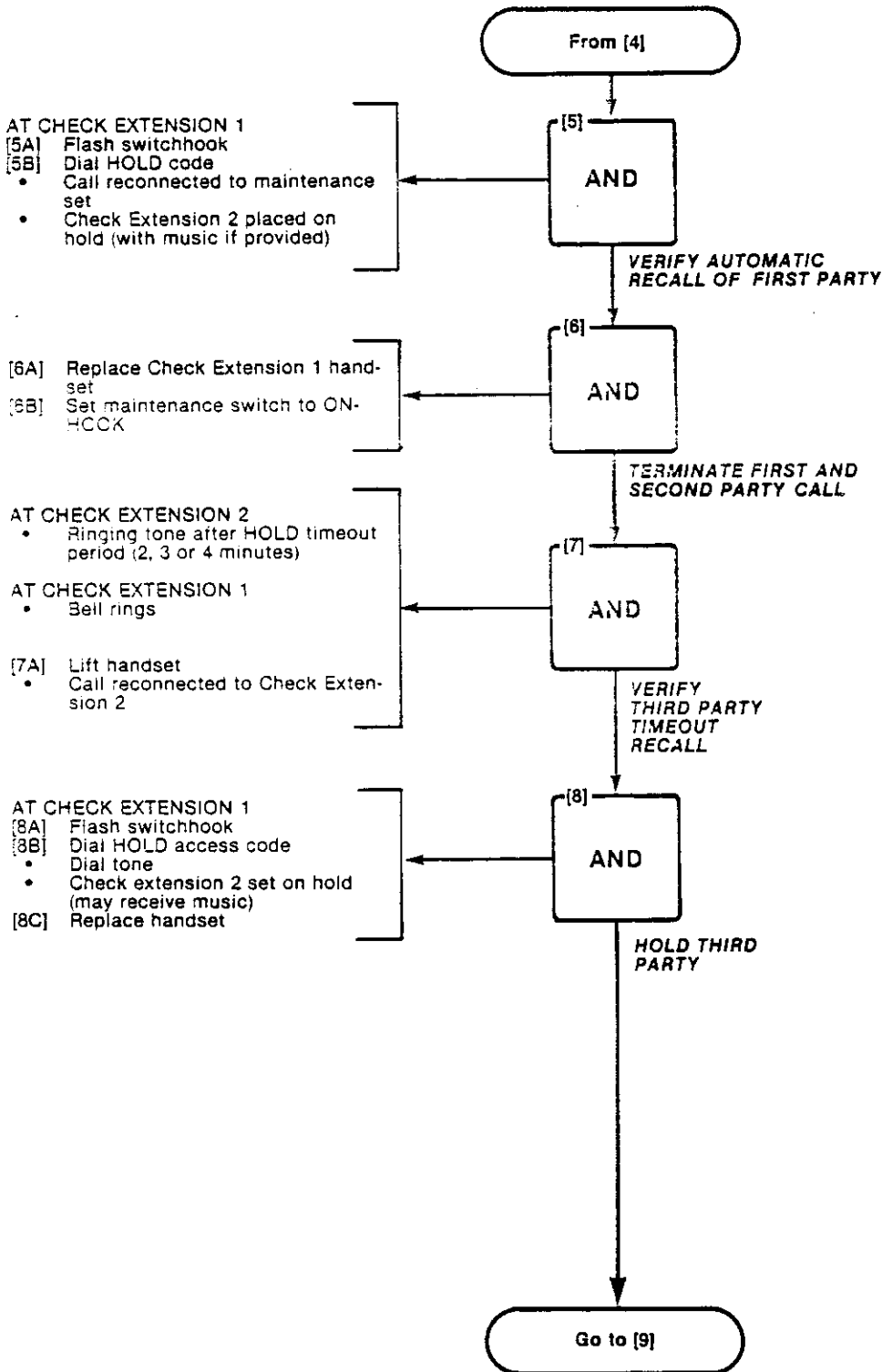


CALL HOLD
MAP215-216
Issue 2, February 1982
Sheet 1 of 3

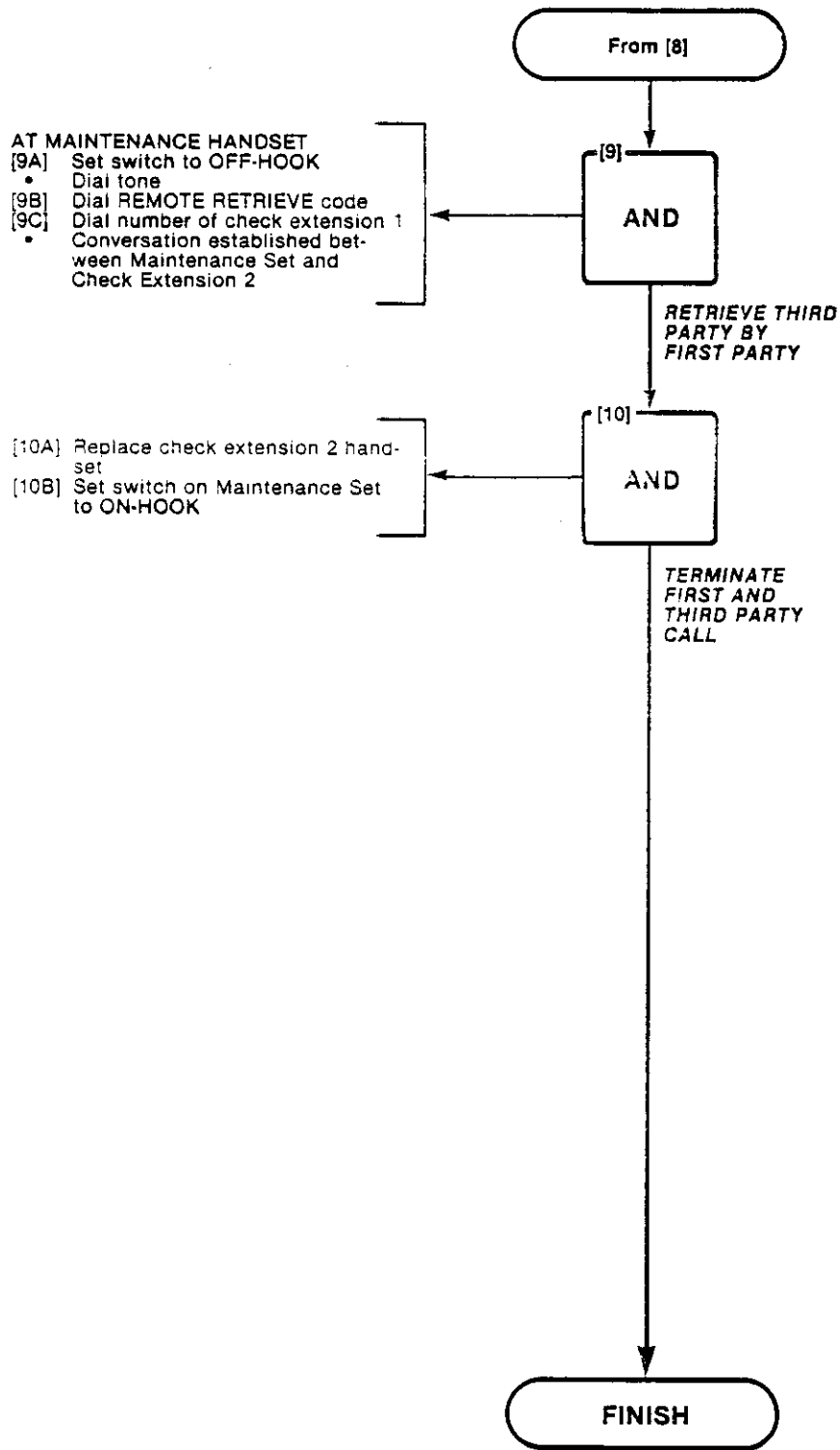


SECTION MITL9105/9110-097-215-NA

CALL HOLD
MAP215-216
Issue 2, February 1982
Sheet 2 of 3



CALL HOLD
MAP215-216
Issue 2, February 1982
Sheet 3 of 3





ROOM STATUS
MAP215-217
Issue 1, August 1981
Sheet 1 of 1

**SYNOPSIS**  
The maid may update the Room Status from the room.

**TABLE 217-1**  
MAID DIALED CODES

MAID CODE	INDICATION
1	Maid in Room, Requires Cleaning
2	Maid left Room, Status Unchanged
3	Maid left Room, Room Ready

**TABLE 217-2**  
ROOM STATUS CODES

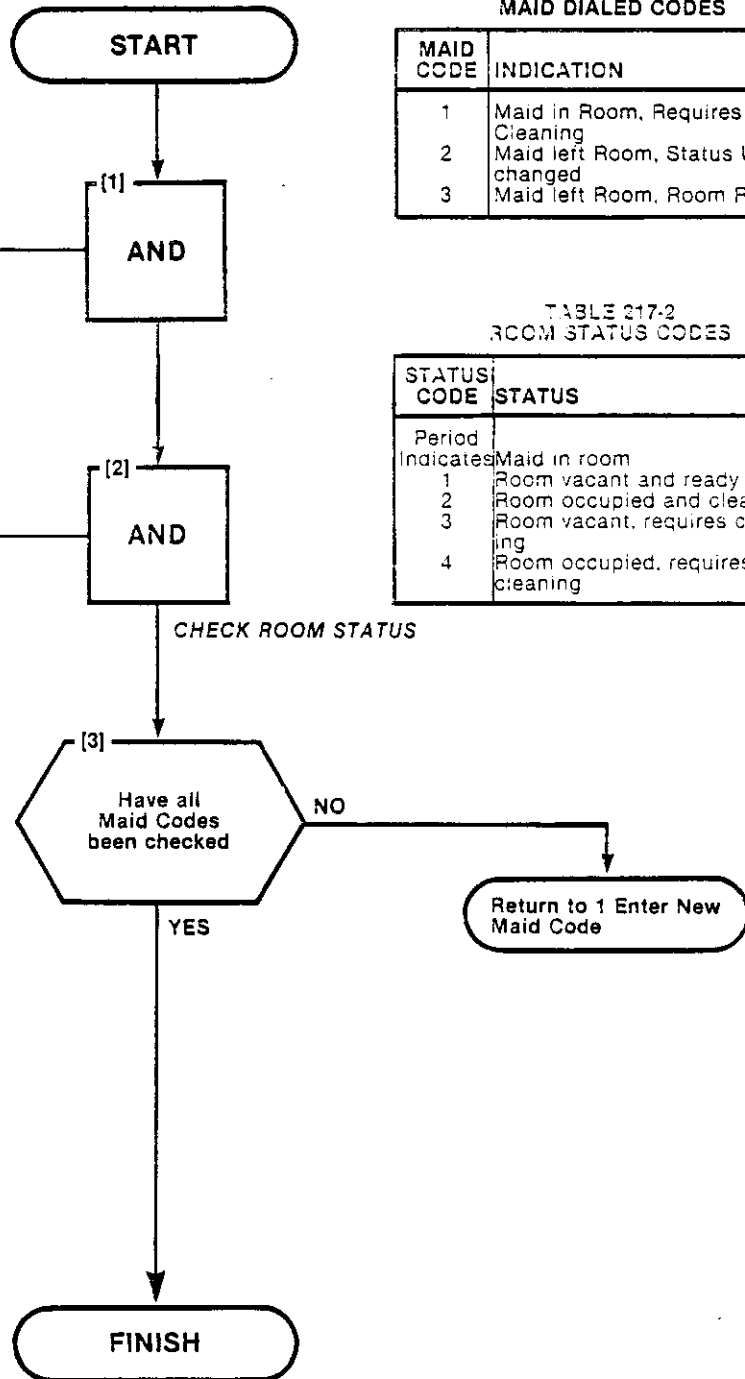
STATUS CODE	STATUS
Period Indicates	Maid in room
1	Room vacant and ready
2	Room occupied and clean
3	Room vacant, requires cleaning
4	Room occupied, requires cleaning

AT CHECK EXTENSION

- [1A] Lift handset
- Dial tone
- [1B] Dial Room Status access code + Maid Code (Table 217-1)

AT CONSOLE

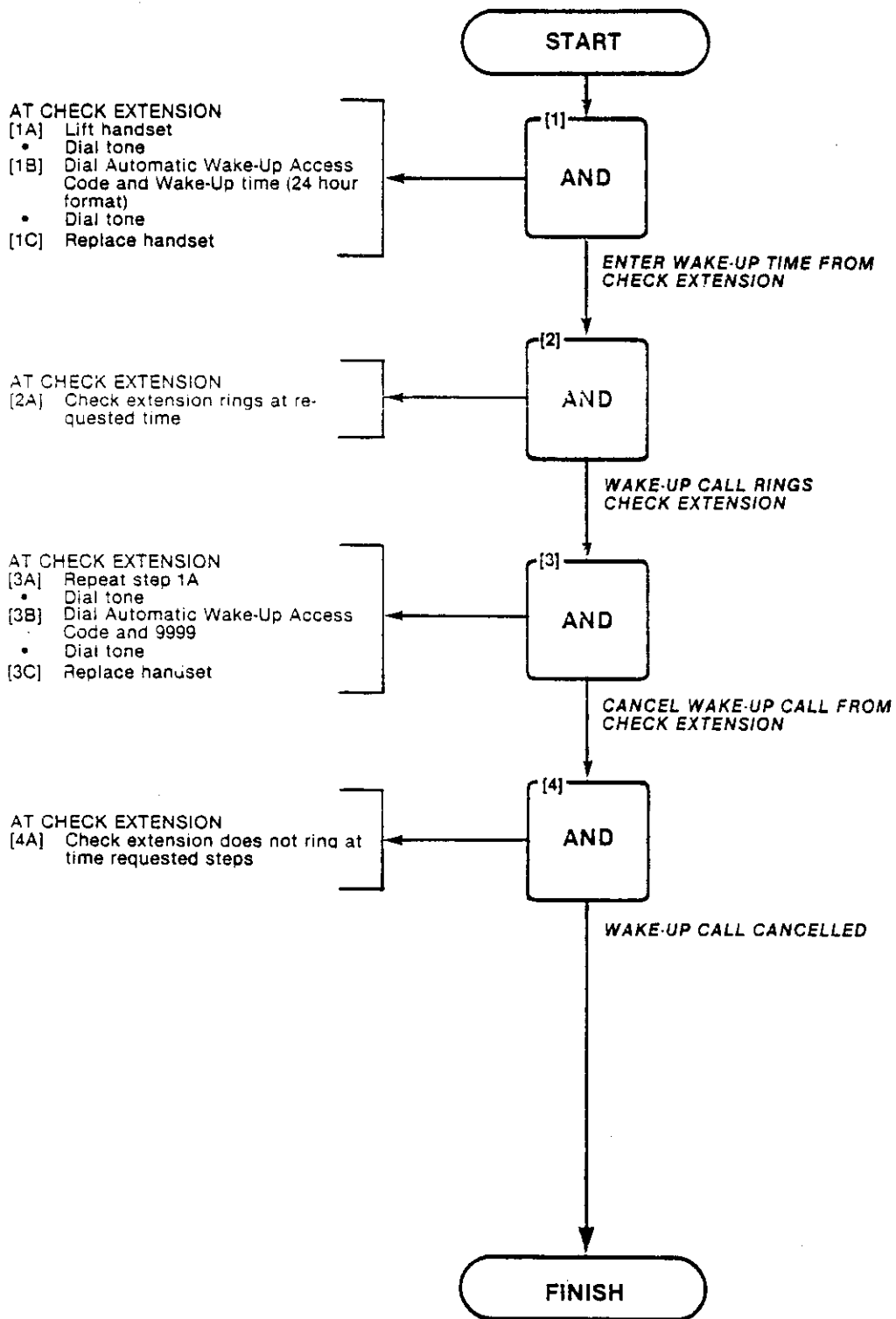
- [2A] Press GUEST ROOM
- [2B] Dial Check extension. Destination display shows numbers as in Table 217-2





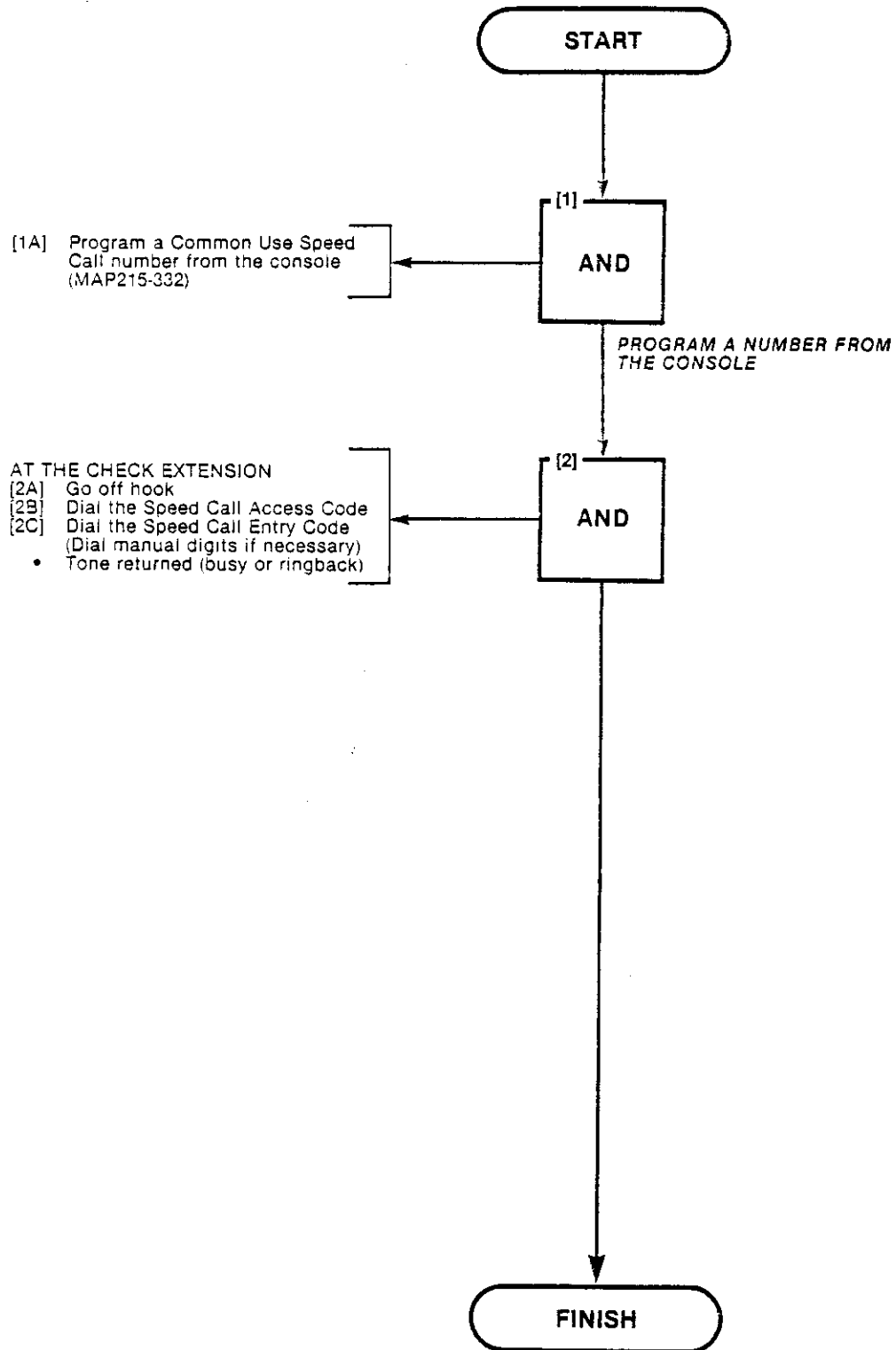


AUTOMATIC WAKE-UP (ALARM CALL)
MAP215-218
Issue 2, February 1982
Sheet 1 of 1



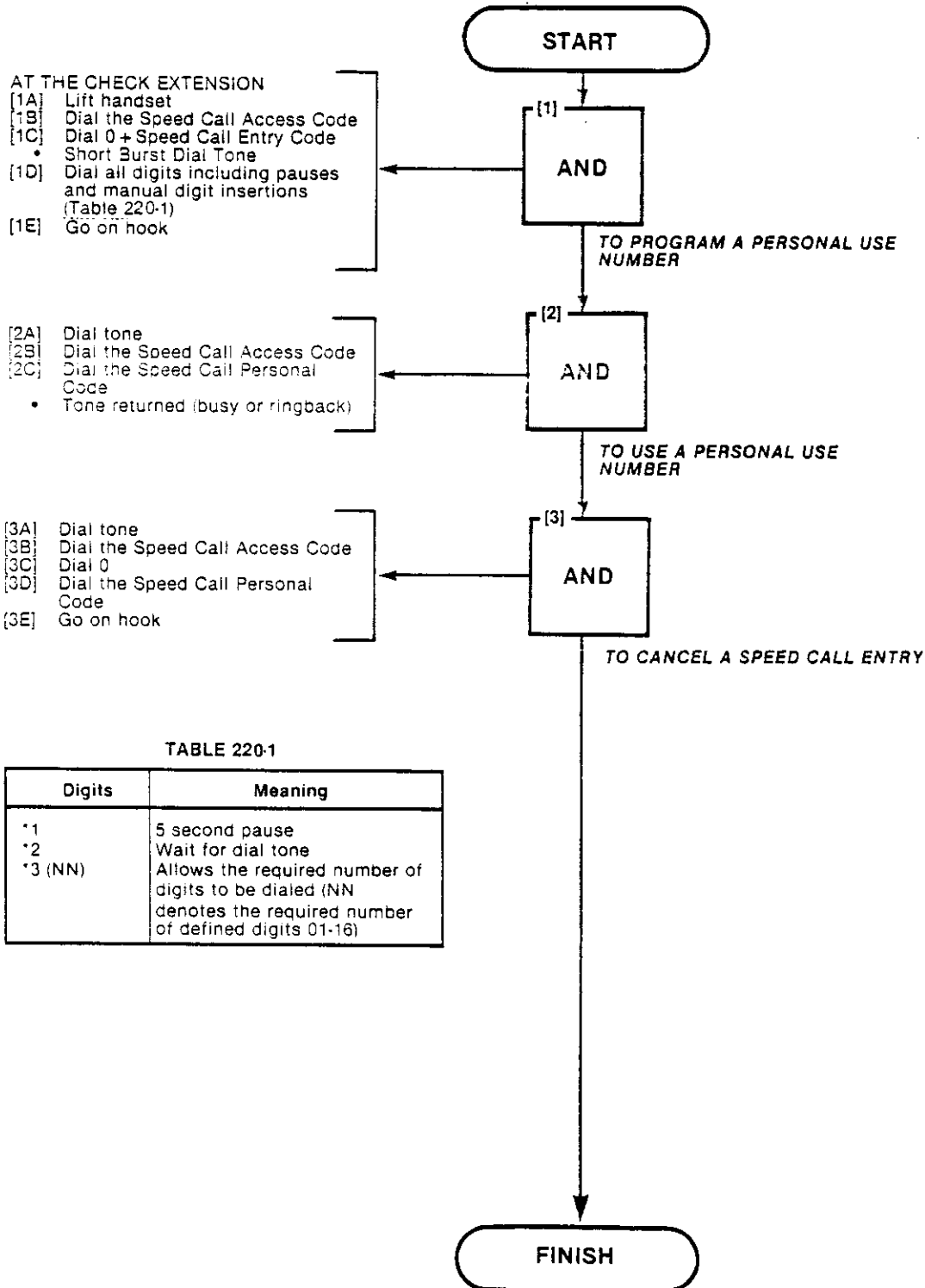


USE A COMMON USE SPEED CALL
MAP215-219
Issue 1, August 1981
Sheet 1 of 1



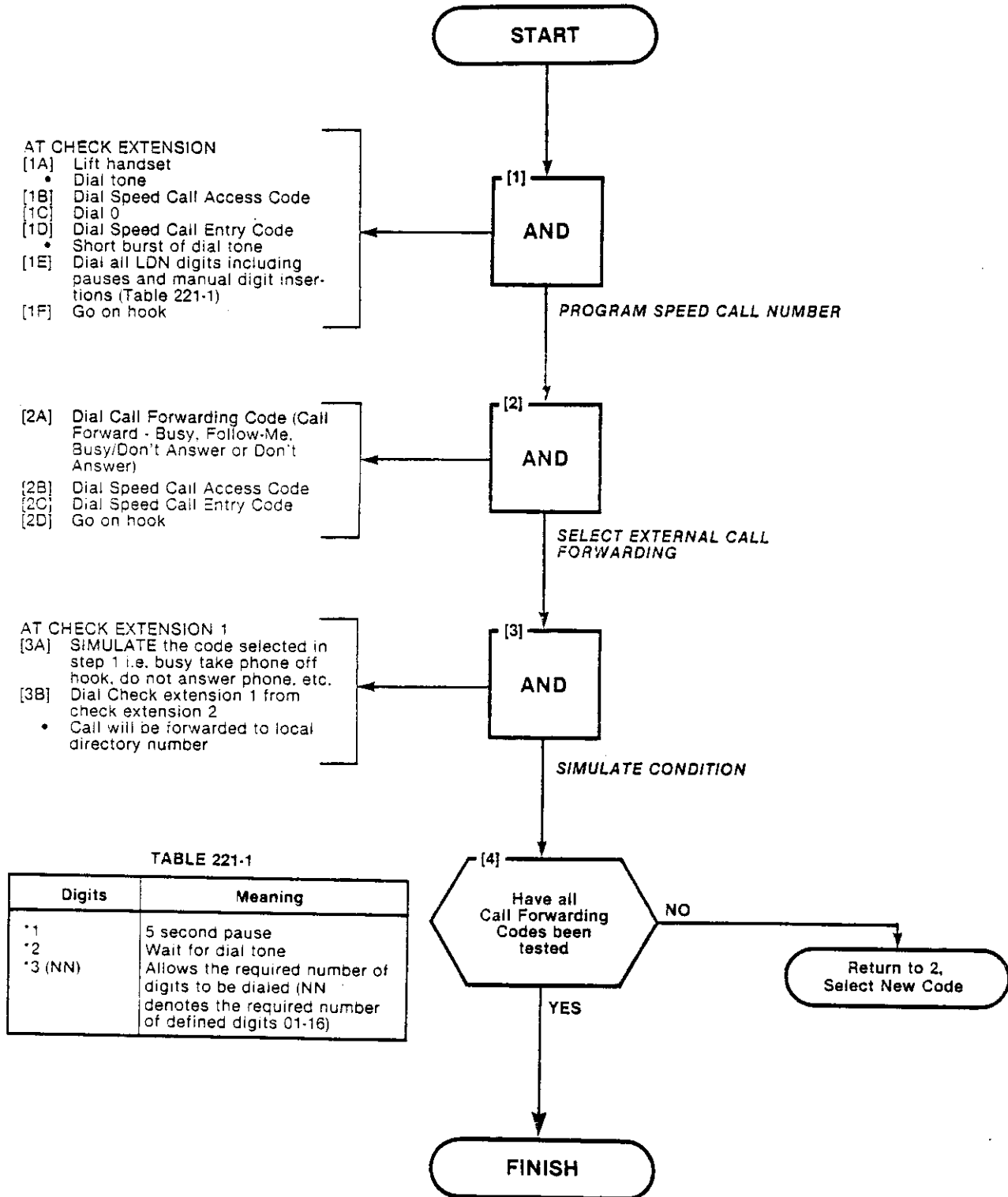


PERSONAL SPEED CALL
MAP215-220
Issue 2, February 1982
Sheet 1 of 1





EXTERNAL CALL FORWARDING
MAP215-221
Issue 2, February 1982
Sheet 1 of 1





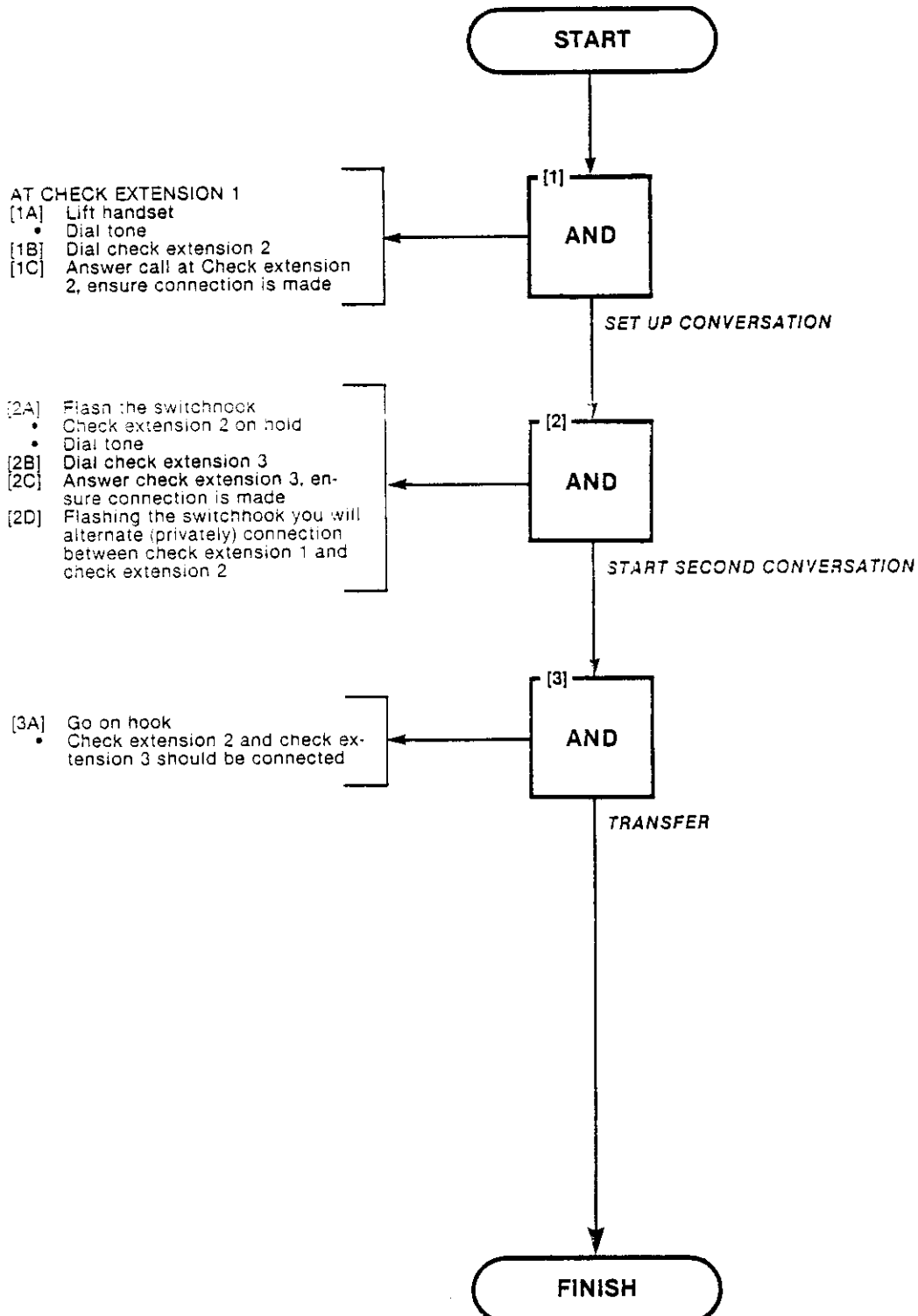


TRANSFER WITH PRIVACY

MAP215-222

Issue 1, August 1981

Sheet 1 of 1

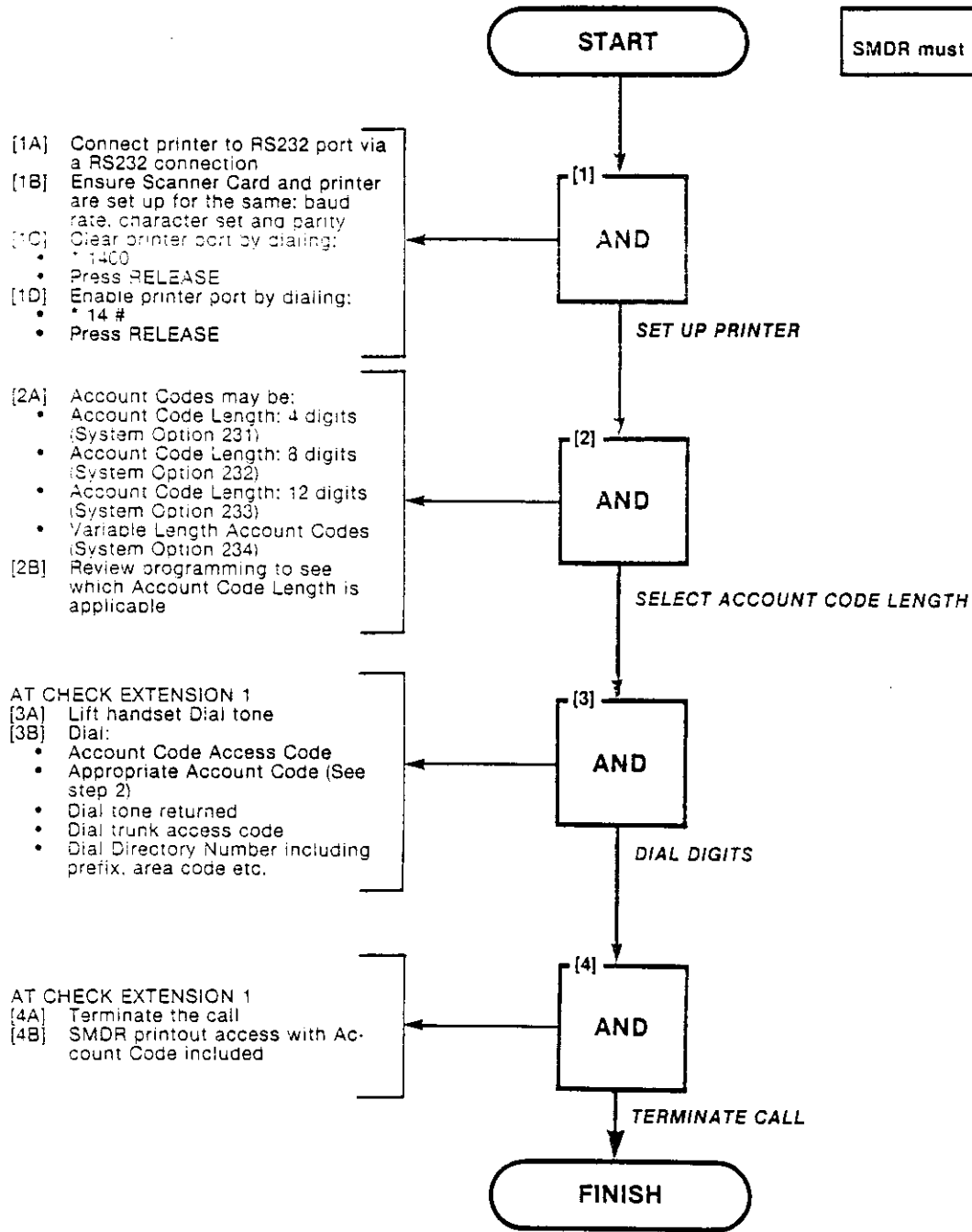




ACCOUNT CODE
MAP215-223
Issue 2, February 1982
Sheet 1 of 2

**TOOLS REQUIRED:**  
 1 PRINTER: RS232  
 COMPATIBLE: 38 characters/line,  
 300 or 1200 baud

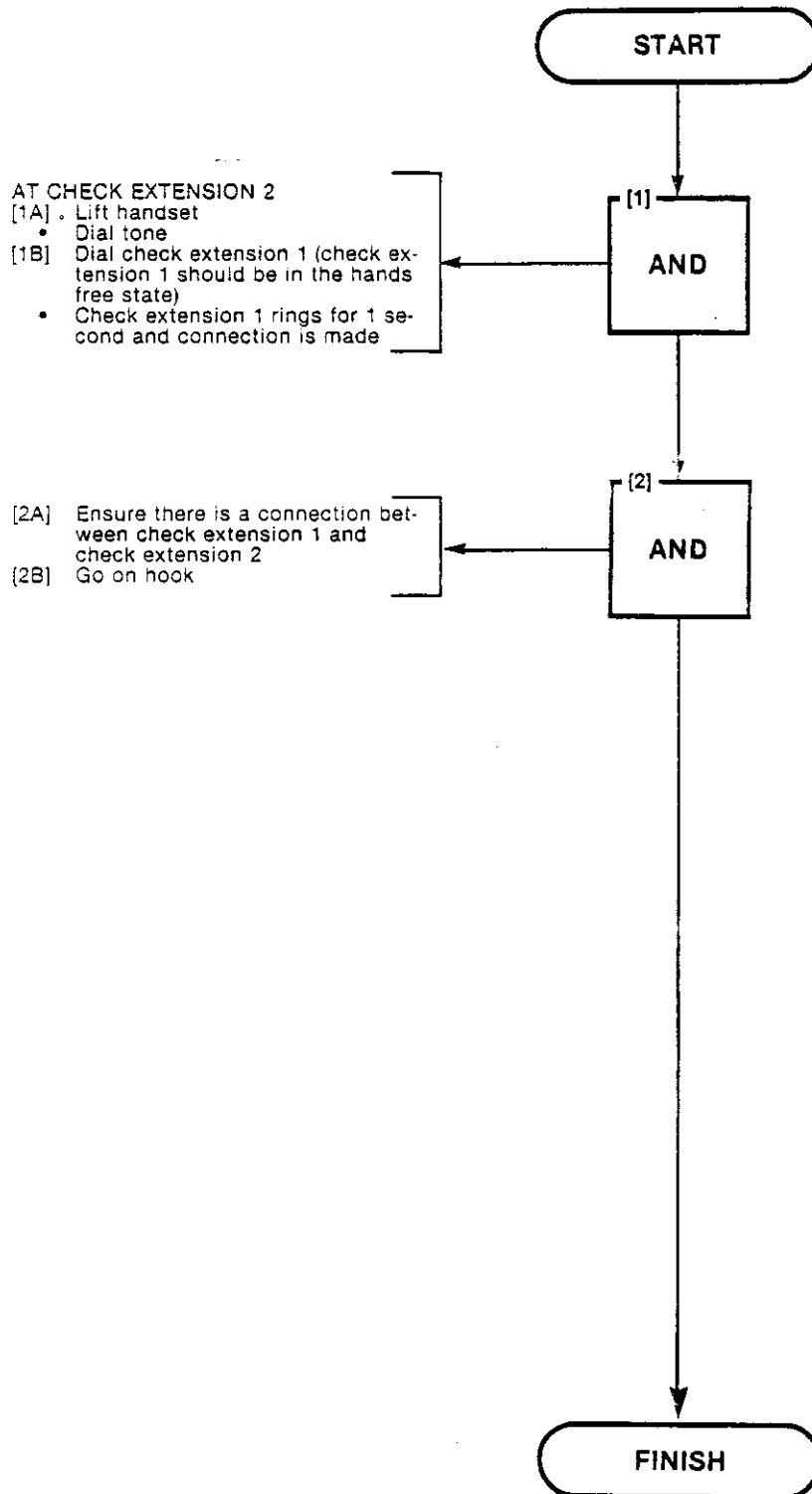
**Note**  
 SMDR must be enabled for this test.





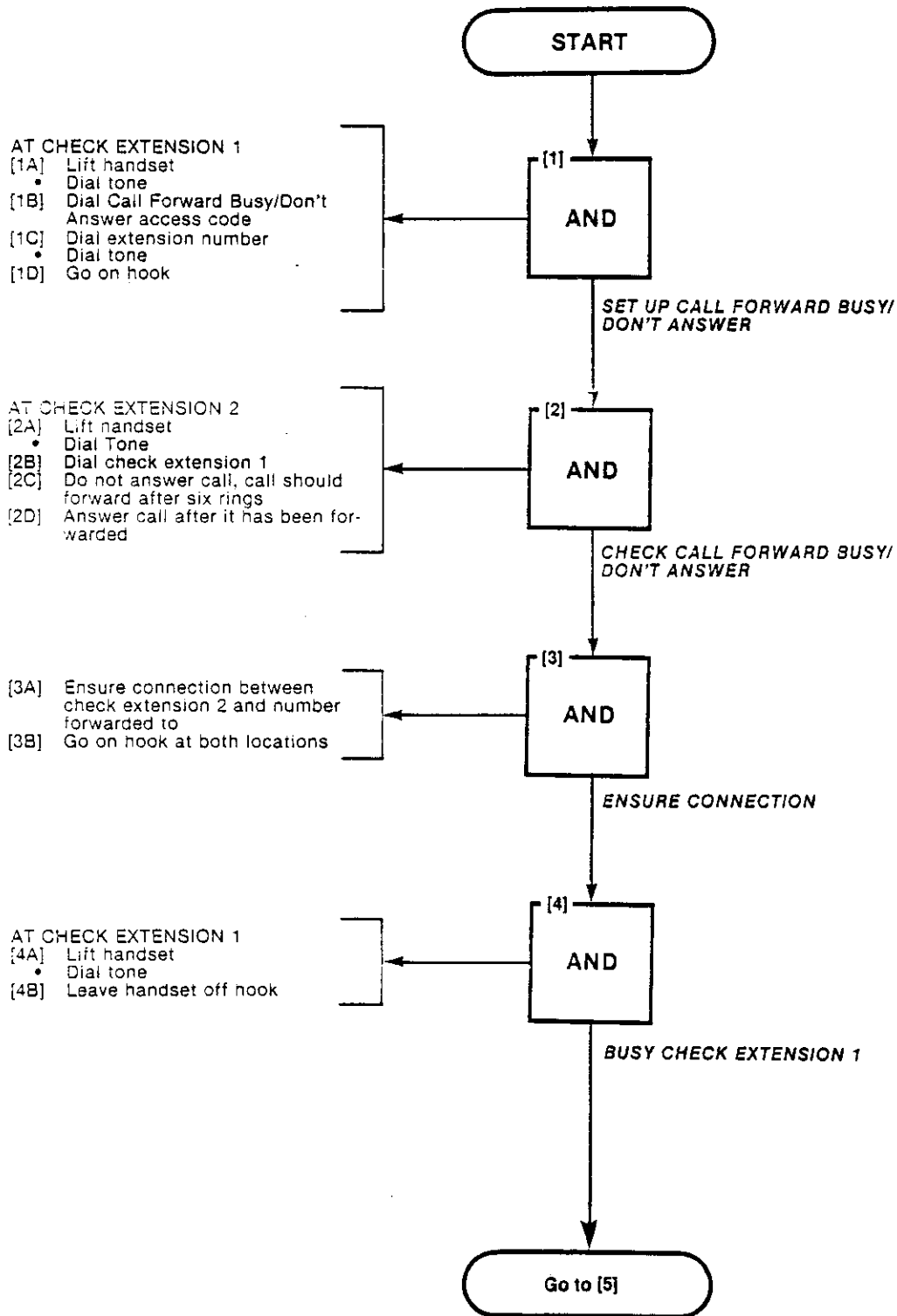
HANDS FREE STATION
MAP215-224
Issue 1, August 1981
Sheet 1 of 1

Note  
For maximum results check extension 1 should be a speaker phone.



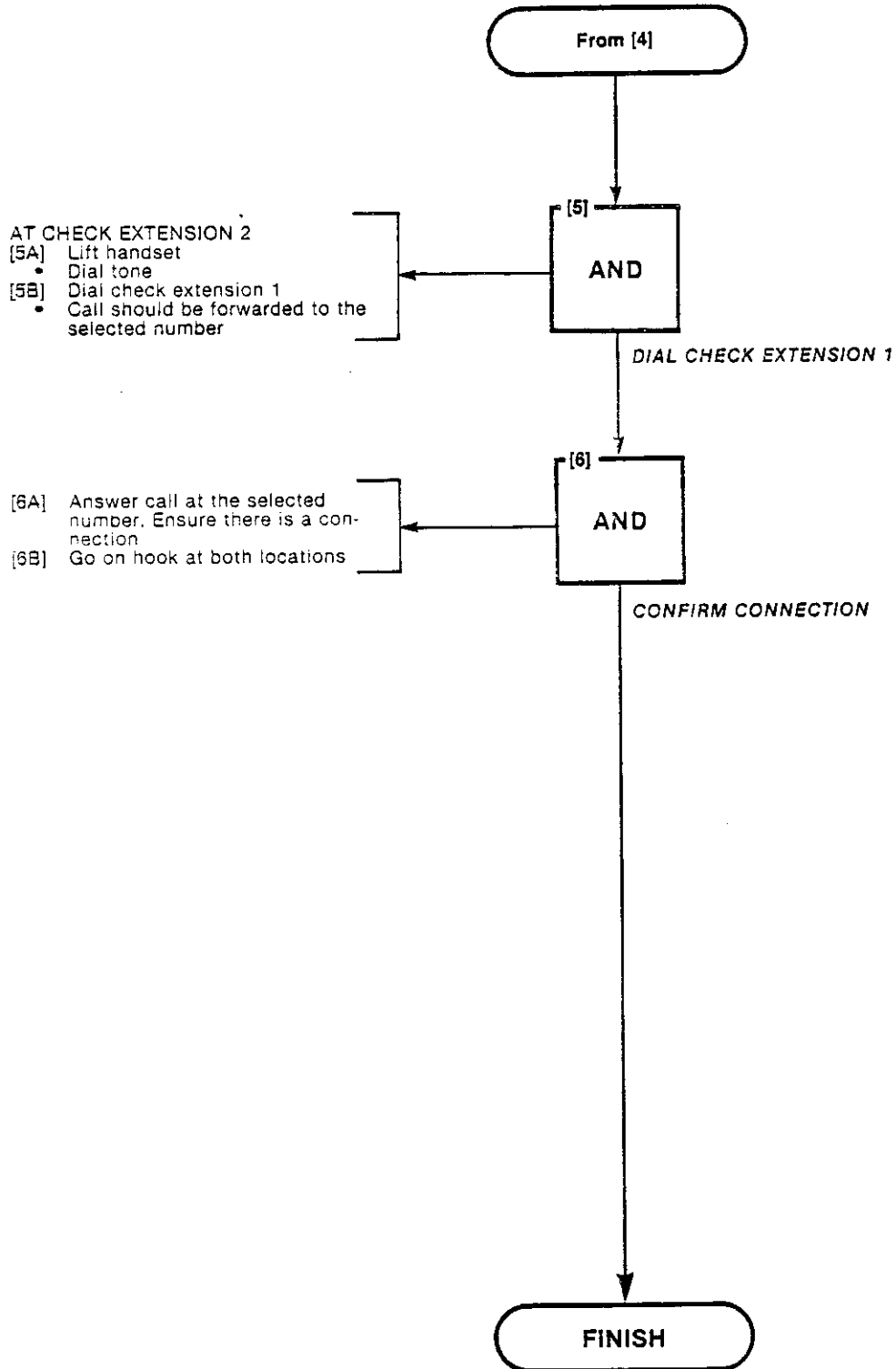


CALL FORWARD BUSY/DON'T ANSWER
MAP215-225
Issue 2, February 1982
Sheet 1 of 2



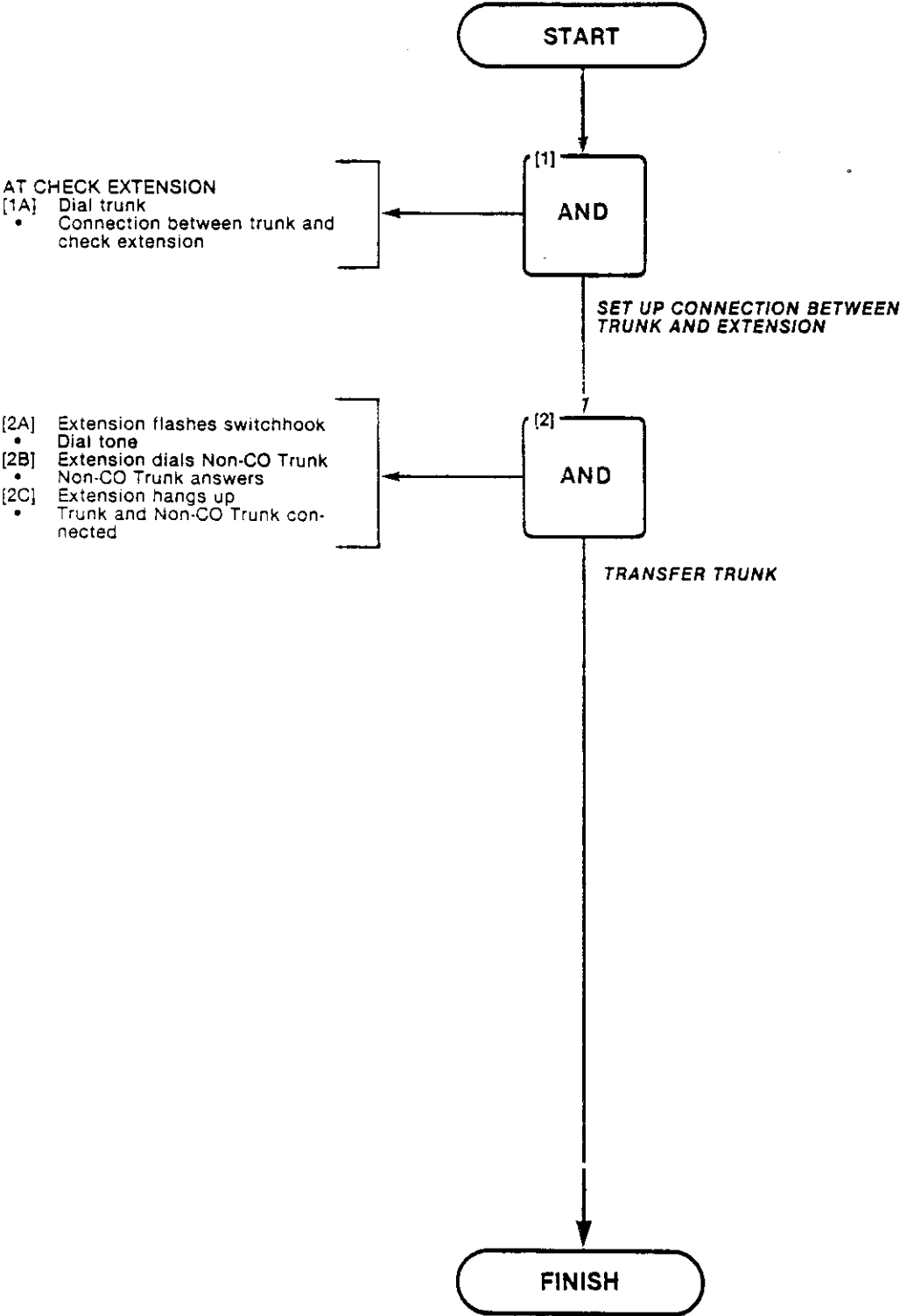
SECTION MITL9105/9110-097-215-NA

CALL FORWARD BUSY/DON'T ANSWER
MAP215-225
Issue 2, February 1982
Sheet 2 of 2





ENABLE NON-CO TRUNK TO TRUNK CONNECT
MAP215-226
Issue 1, August 1981
Sheet 1 of 1





## APPENDIX 3

### CONSOLE TESTS

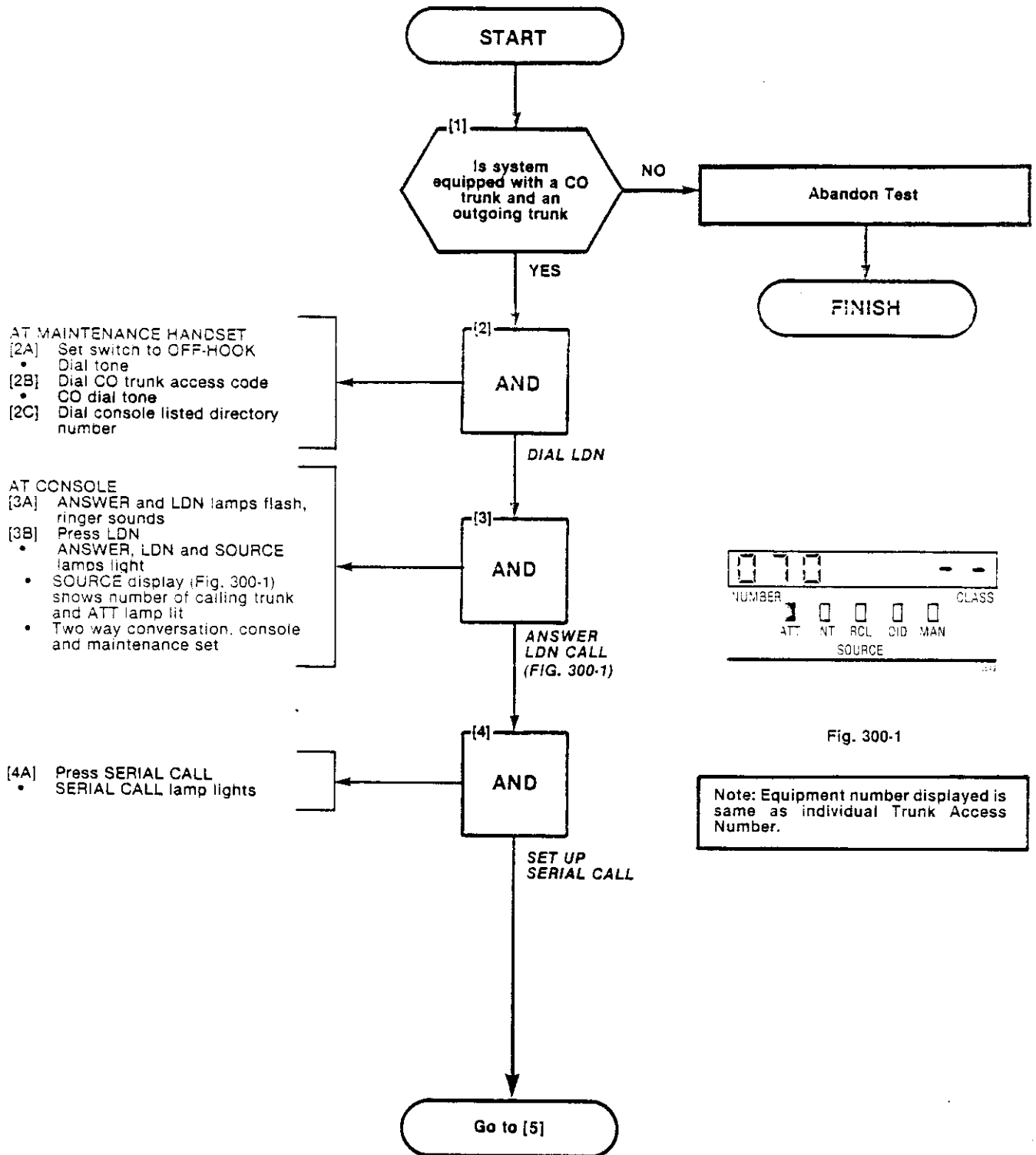
**A3.01** The following tests are a series of console tests. Specific reference should be made to Table 2-2 and Table 2-4. These Tables will determine the Generic level applicable and if the test is relevant to the system application.

**TABLE A3-1 CONSOLE TESTS**

ORDER	TEST	MAP No.
1	Answer Incoming Call	215-300
2	Automatic Callback	215-301
3	Extending Internal Calls	215-302
4	Answering Recall	215-303
5	Override	215-304
6	Flexible Night Service	215-305
7	Trunk Busy Operation	215-306
8	Trunk Group Attendant Access	215-307
9	Trunk Group Dial Access	215-308
10	Test Termination	215-309
11	Answer Incoming CO Trunk Call	215-310
12	Attendant Do Not Disturb	215-311
13	Message Waiting	215-312
14	Attendant Call Forwarding - Busy	215-313
15	Attendant Call Forwarding - Don't Answer	215-314
16	Attendant Call Forwarding - Follow Me	215-315
17	Attendant Call Forwarding Busy/Don't Answer	215-316
18	Attendant Controlled Conference	215-317
19	Attendant Station Busy Out	215-318
20	Block	215-319
21	Attendant Do Not Disturb (H/M)M	215-320
22	Message Registration	215-321
23	Controlled Outgoing Call Restriction	215-322
24	Room Status	215-323
25	Automatic Wake-Up (Alarm Call)	215-324
26	MESSAGE WAITING H/M	215-325
27	Console Date Display and Date Utility	215-326
28	Customer Program Dump Load	215-327
29	Controlling the Printer	215-328
30	Room Audit	215-329
31	System Identifier	215-330
32	Common Use Speed Call	215-331
33	Customer Programming	215-332
34	External Call Forwarding	215-333
35	Test Audible Tone Indicators	215-334
36	Single Digit Dialing	215-335
37	Common Alerting Devices	215-336
38	Answer DID Trunk Call	215-337



ANSWER INCOMING CALL
MAP215-300
Issue 2, February 1982
Sheet 1 of 4



ANSWER INCOMING CALL
MAP215-300
Issue 2, February 1982
Sheet 2 of 4

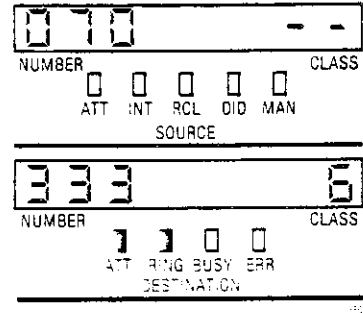
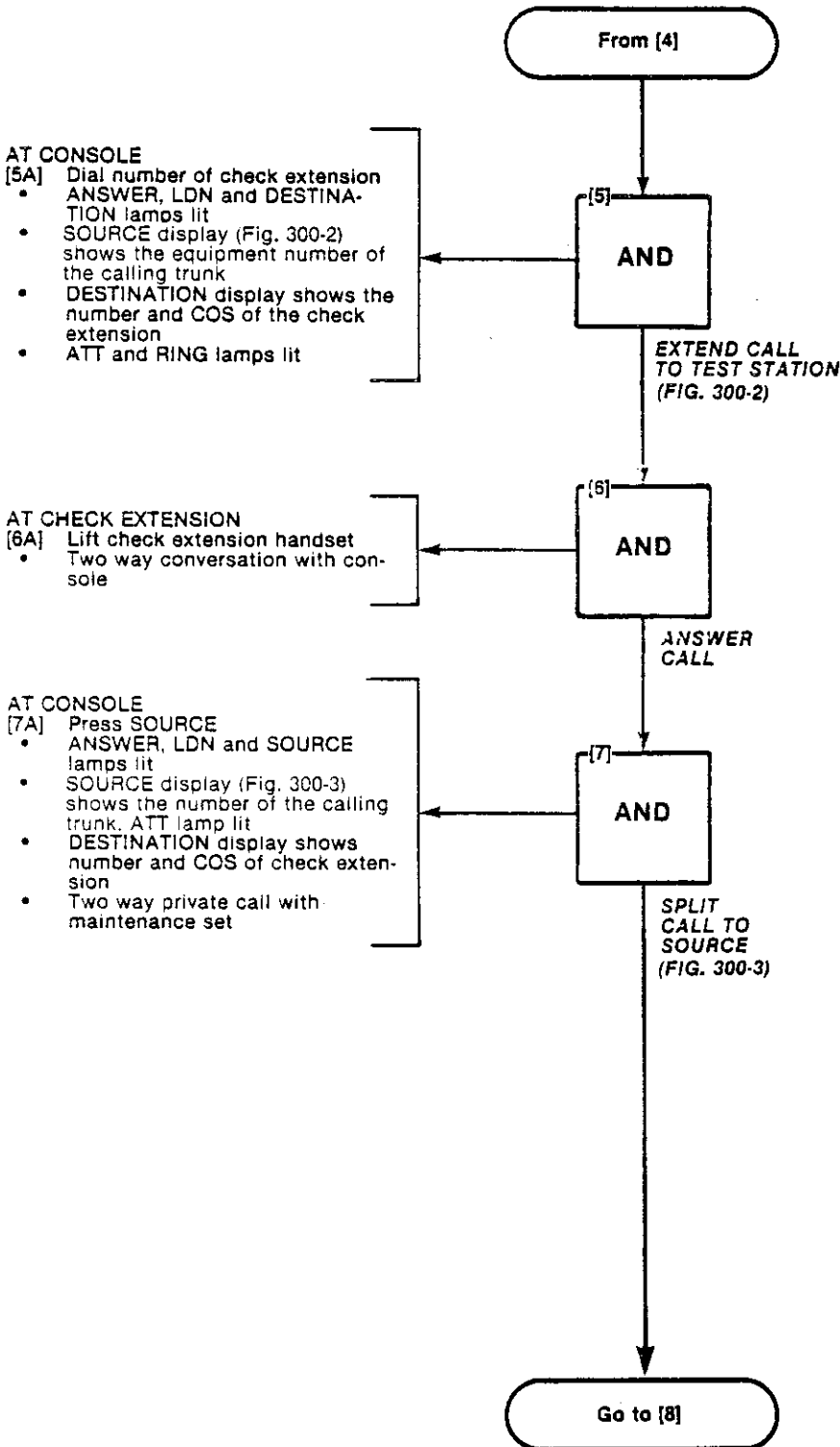


Fig. 300-2

Note: Equipment number displayed is same as individual Trunk Access Number.

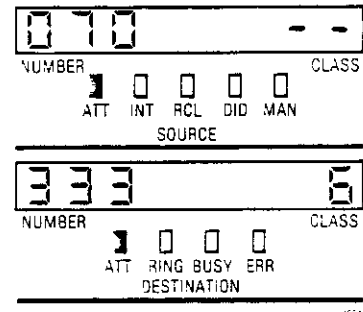


Fig. 300-3

Note: Equipment number displayed is same as individual Trunk Access Number.

ANSWER INCOMING CALL
MAP215-300
Issue 2, February 1982
Sheet 3 of 4

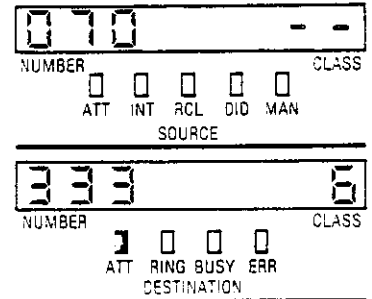
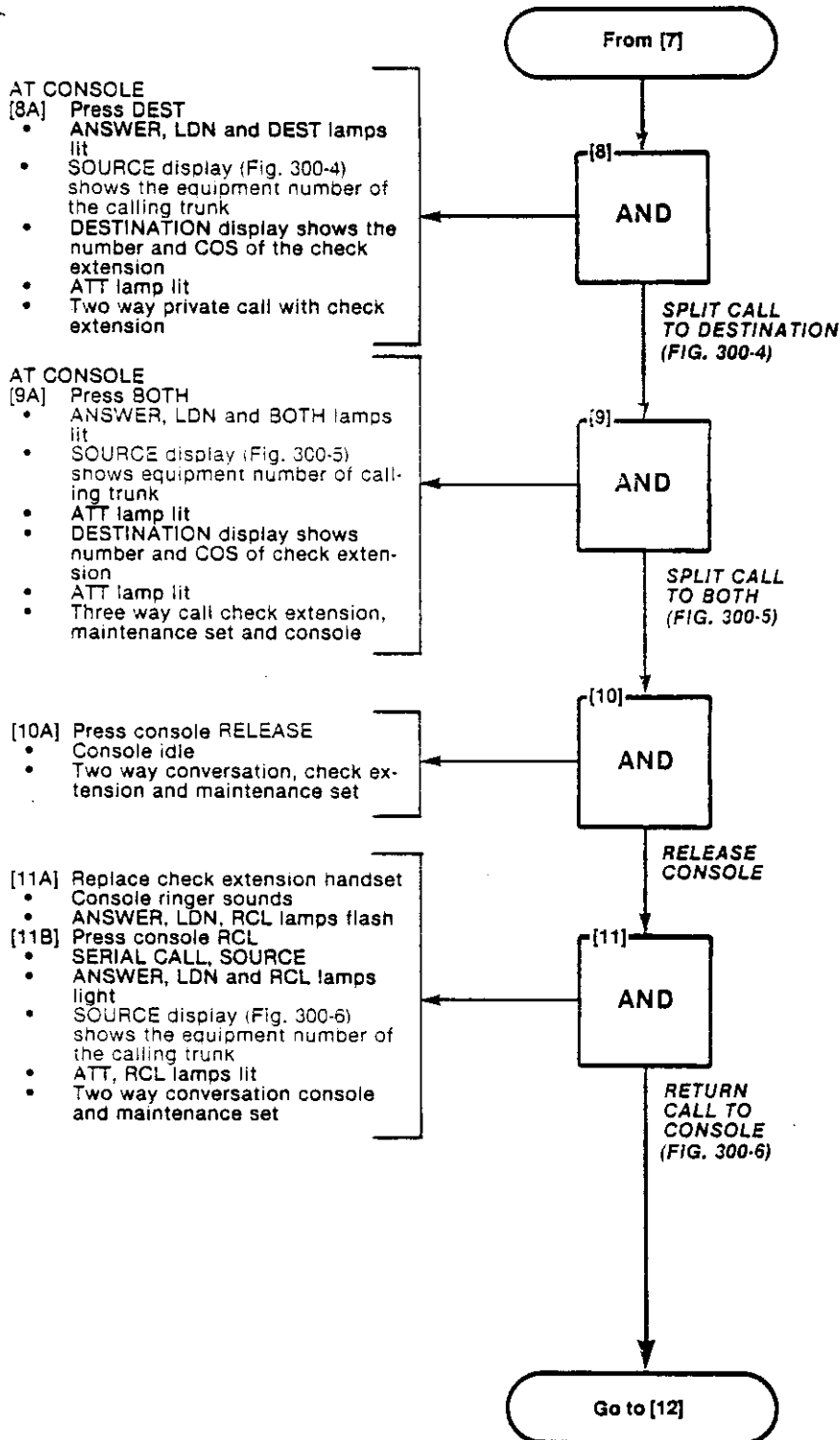


Fig. 300-4

Note: Equipment number displayed is same as individual Trunk Access Number.

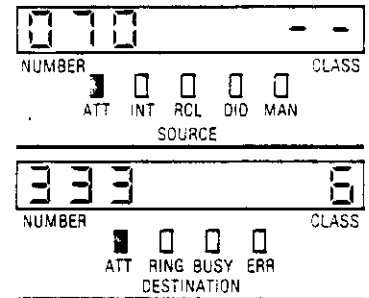


Fig. 300-5

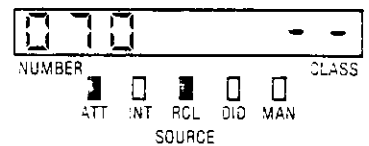
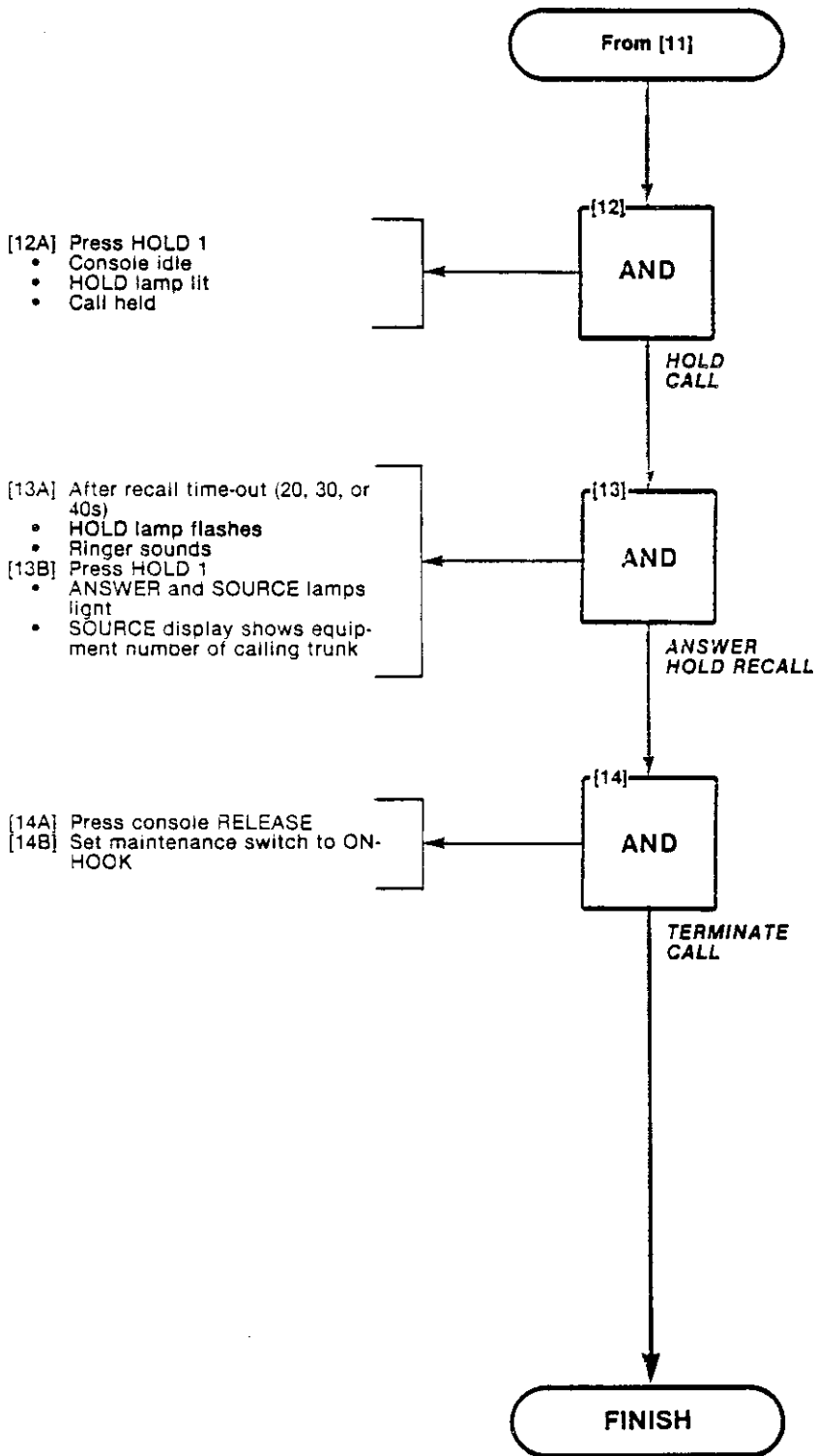


Fig. 300-6

SECTION MITL9105/9110-097-215-NA

ANSWER INCOMING CALL
MAP215-300
Issue 2, February 1982
Sheet 4 of 4





AUTOMATIC CALLBACK
MAP215-301
Issue 1, August 1981
Sheet 1 of 1

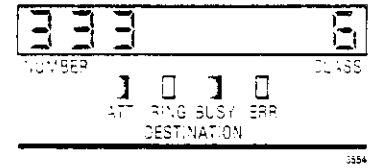
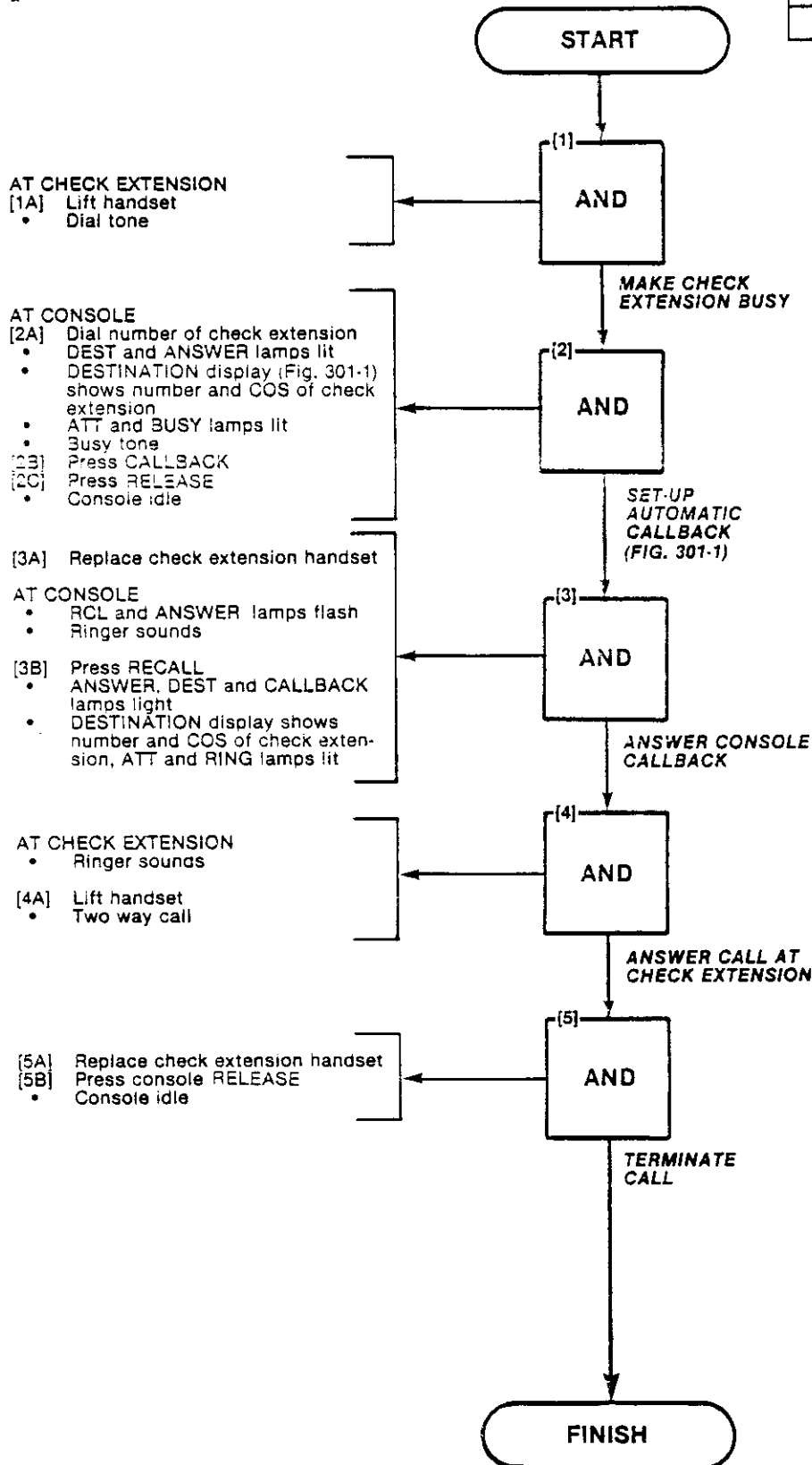


Fig. 301-1



EXTENDING INTERNAL CALLS
MAP215-302
Issue 1, August 1981
Sheet 1 of 1

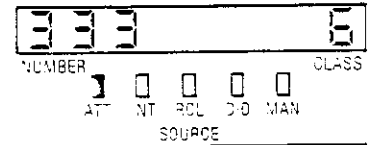
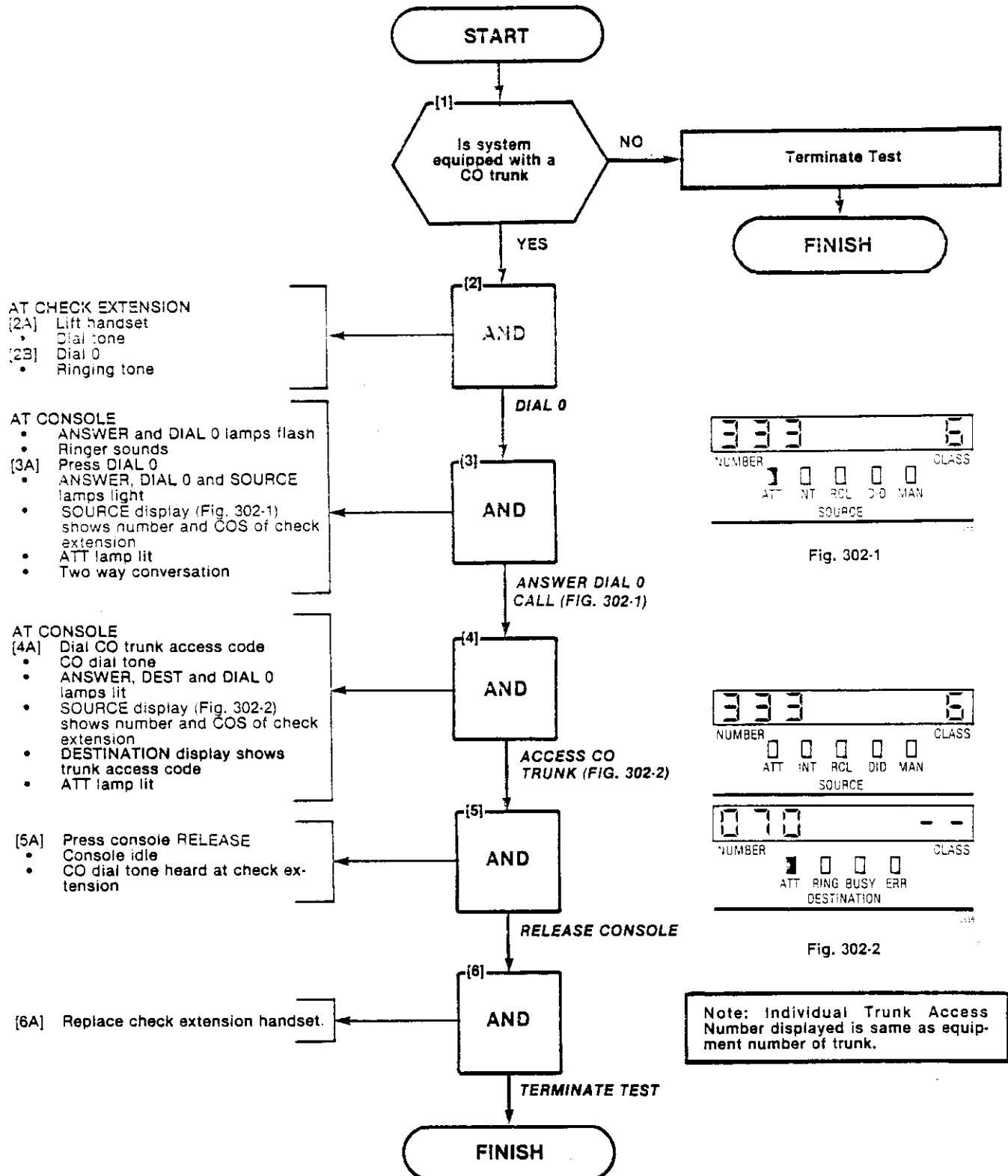


Fig. 302-1

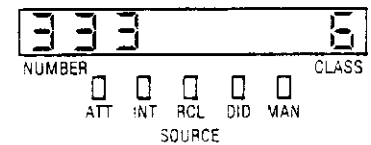


Fig. 302-2

Note: Individual Trunk Access Number displayed is same as equipment number of trunk.



ANSWERING RECALL
MAP215-303
Issue 2, February 1982
Sheet 1 of 2

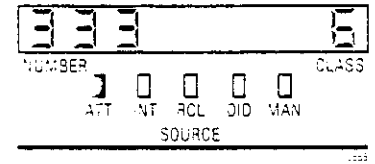
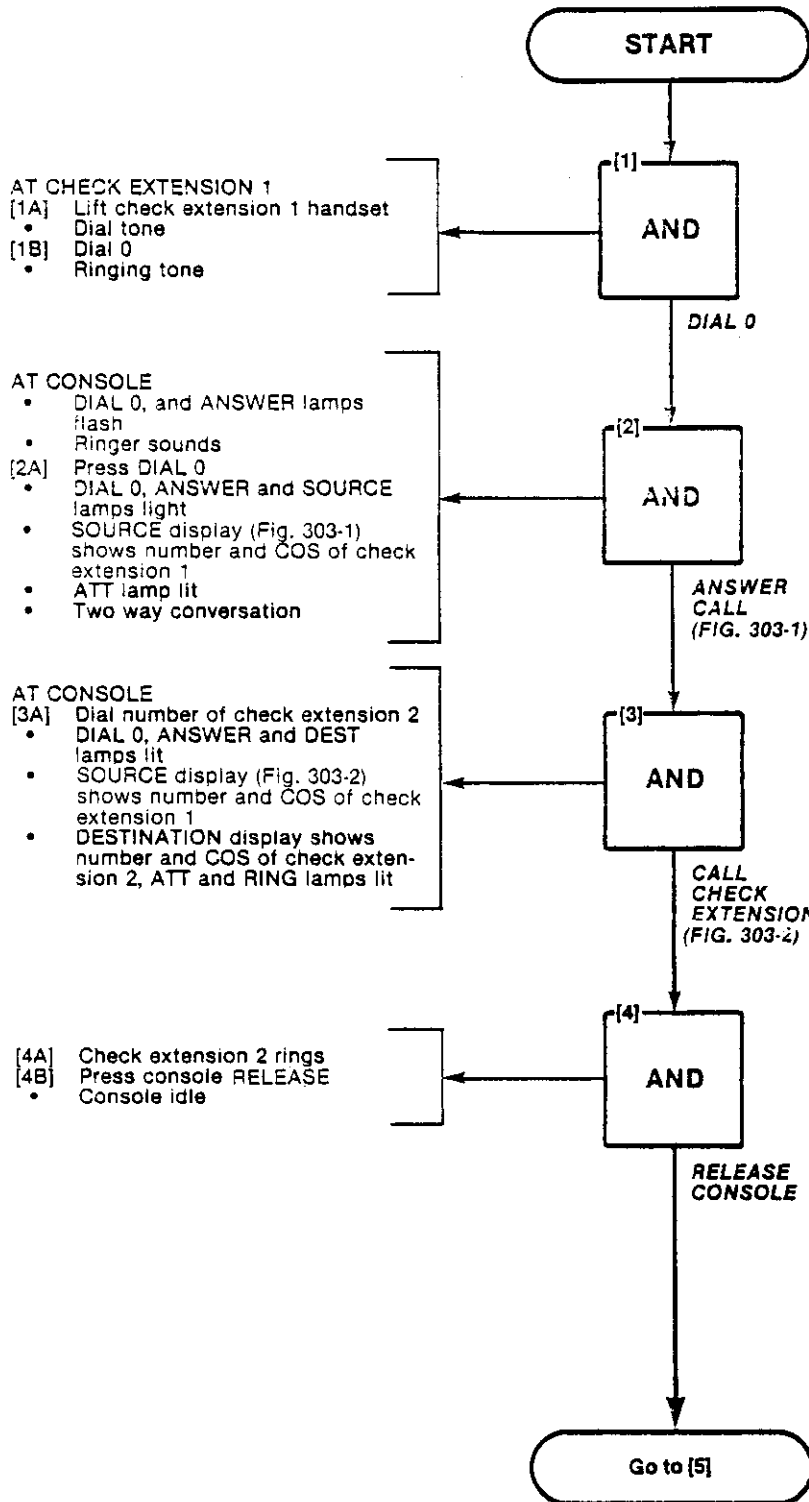


Fig. 303-1

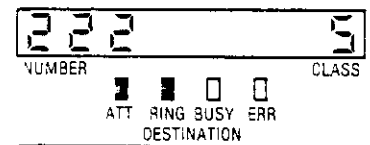
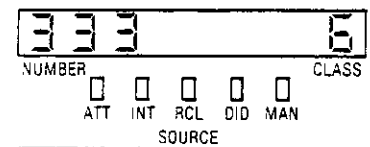


Fig. 303-2

ANSWERING RECALL
MAP215-303
Issue 2, February 1982
Sheet 2 of 2

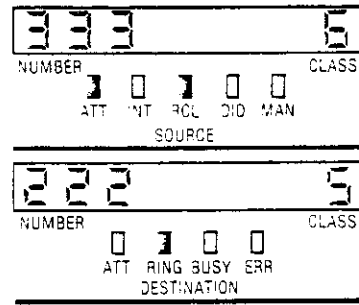
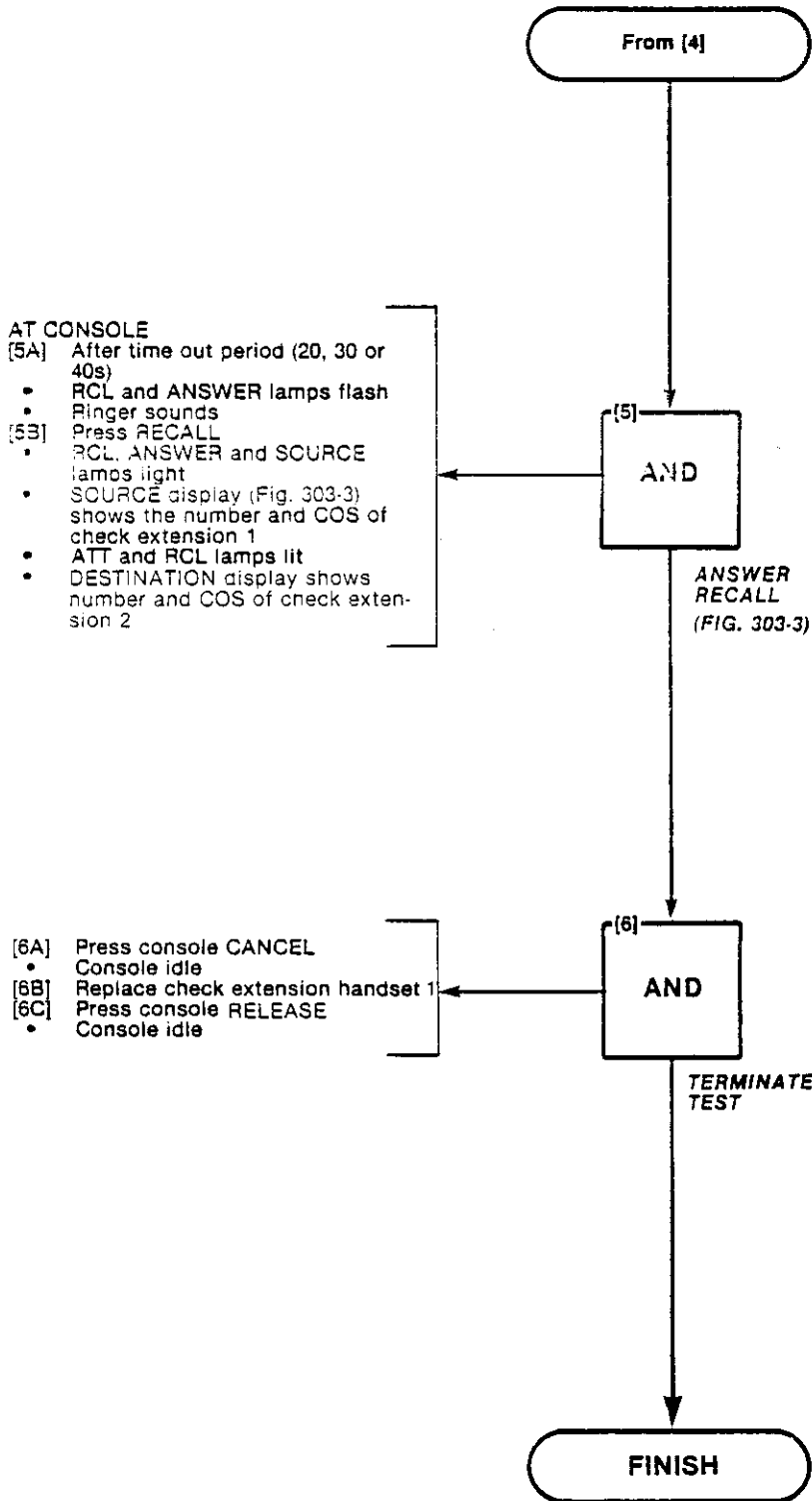


Fig. 303-3

OVERRIDE
MAP215-304
Issue 1, August 1981
Sheet 1 of 1

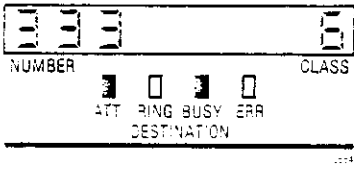
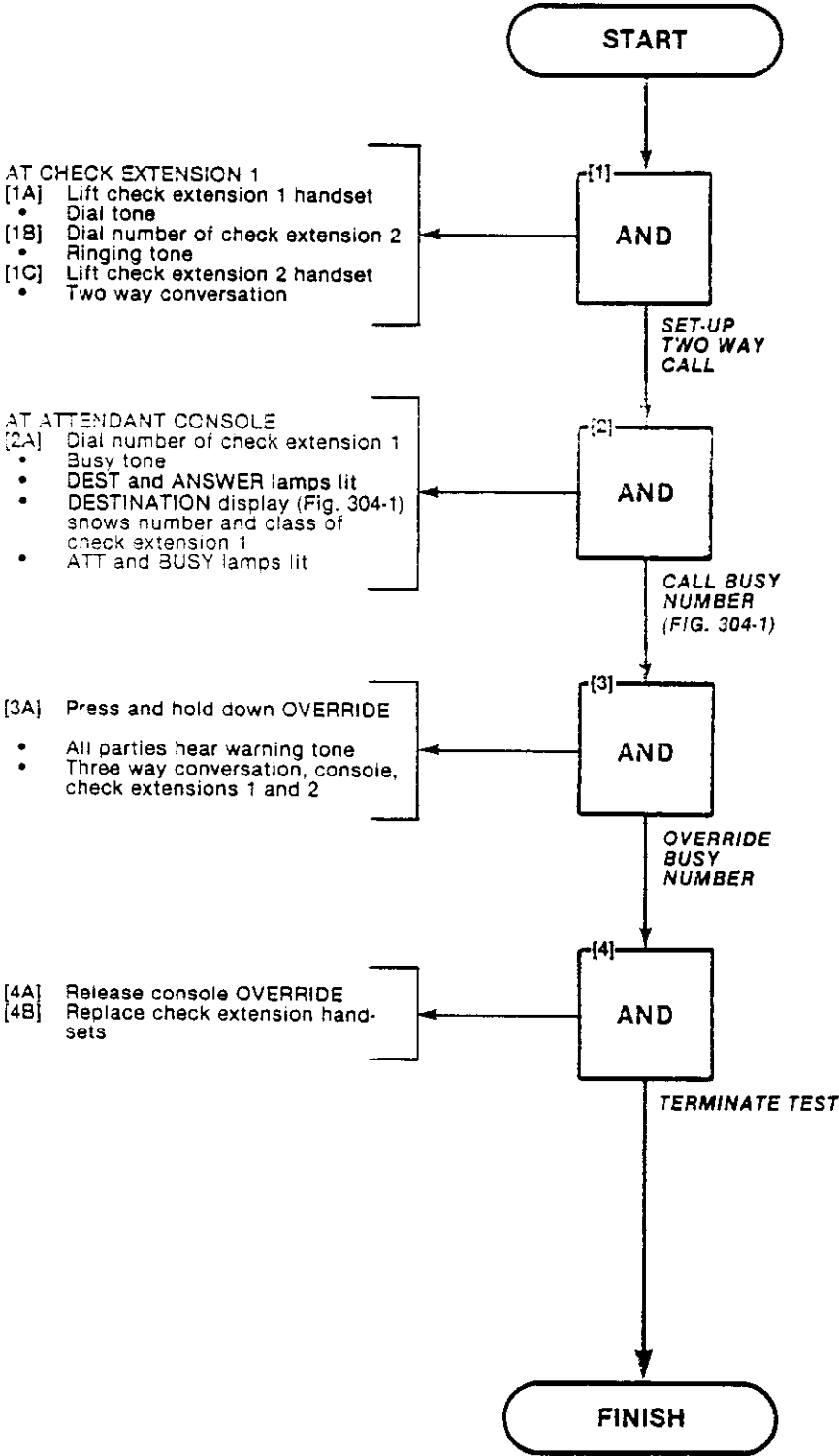


Fig. 304-1





FLEXIBLE NIGHT SERVICE
MAP215-305
Issue 2, February 1982
Sheet 1 of 1

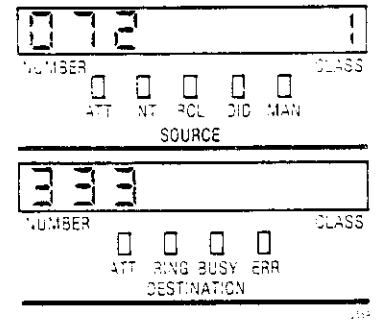
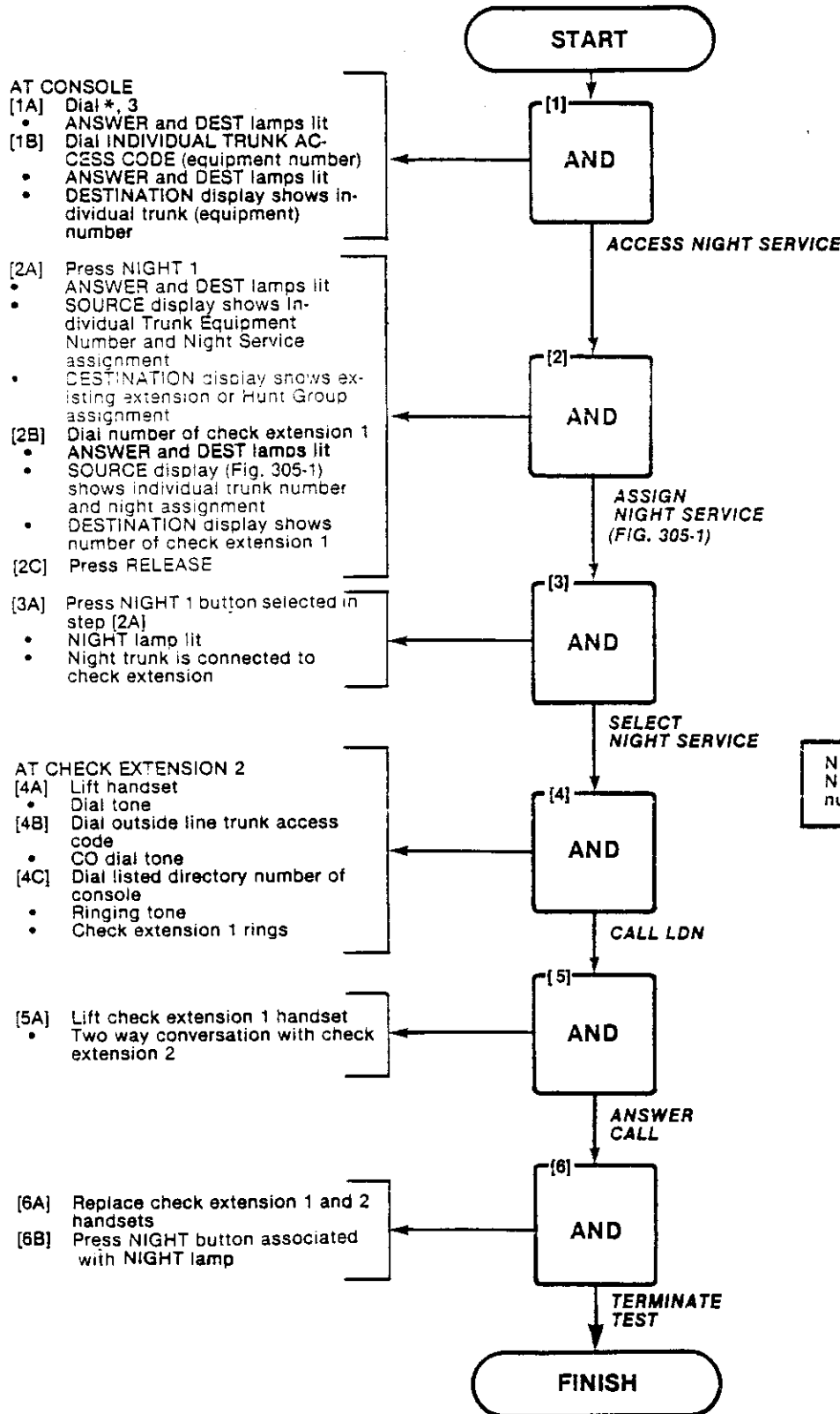


Fig. 305-1

Note: Individual Trunk Access Number displayed is the equipment number of the trunk.



TRUNK BUSY OPERATION
MAP215-306
Issue 2, February 1982
Sheet 1 of 1

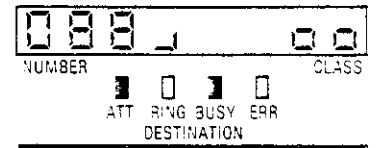
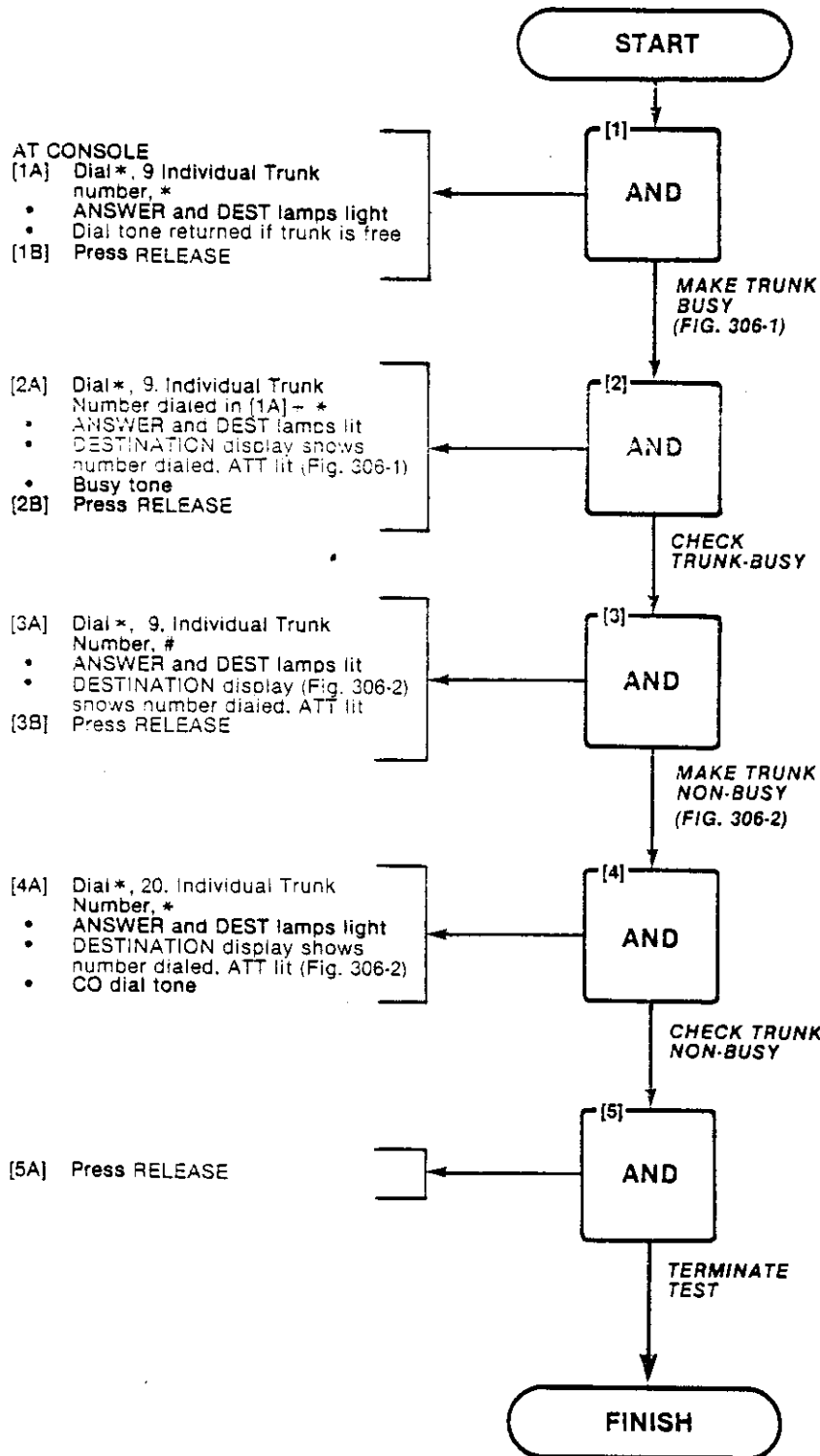


Fig. 306-1

Note: Individual Trunk Access Number displayed is same as equipment number of trunk.

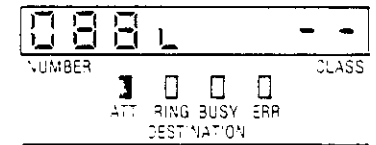


Fig. 306-2



TRUNK GROUP ATTENDANT ACCESS
MAP215-307
Issue 2, February 1982
Sheet 1 of 1

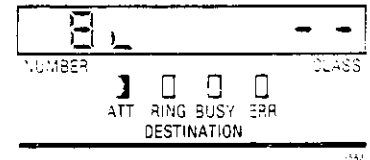
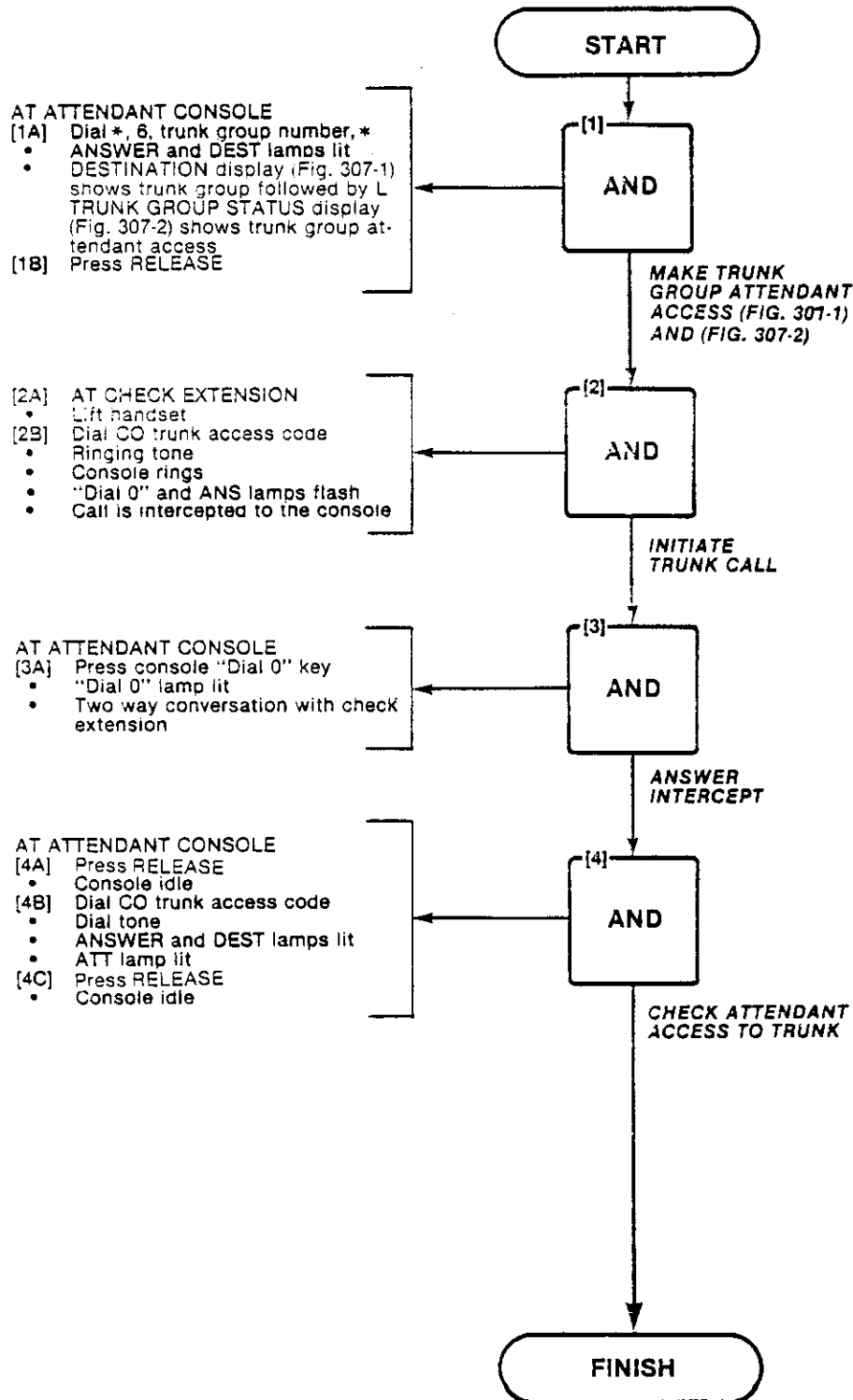


Fig. 307-1

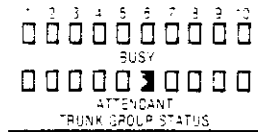
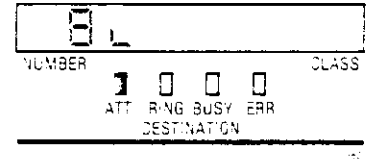
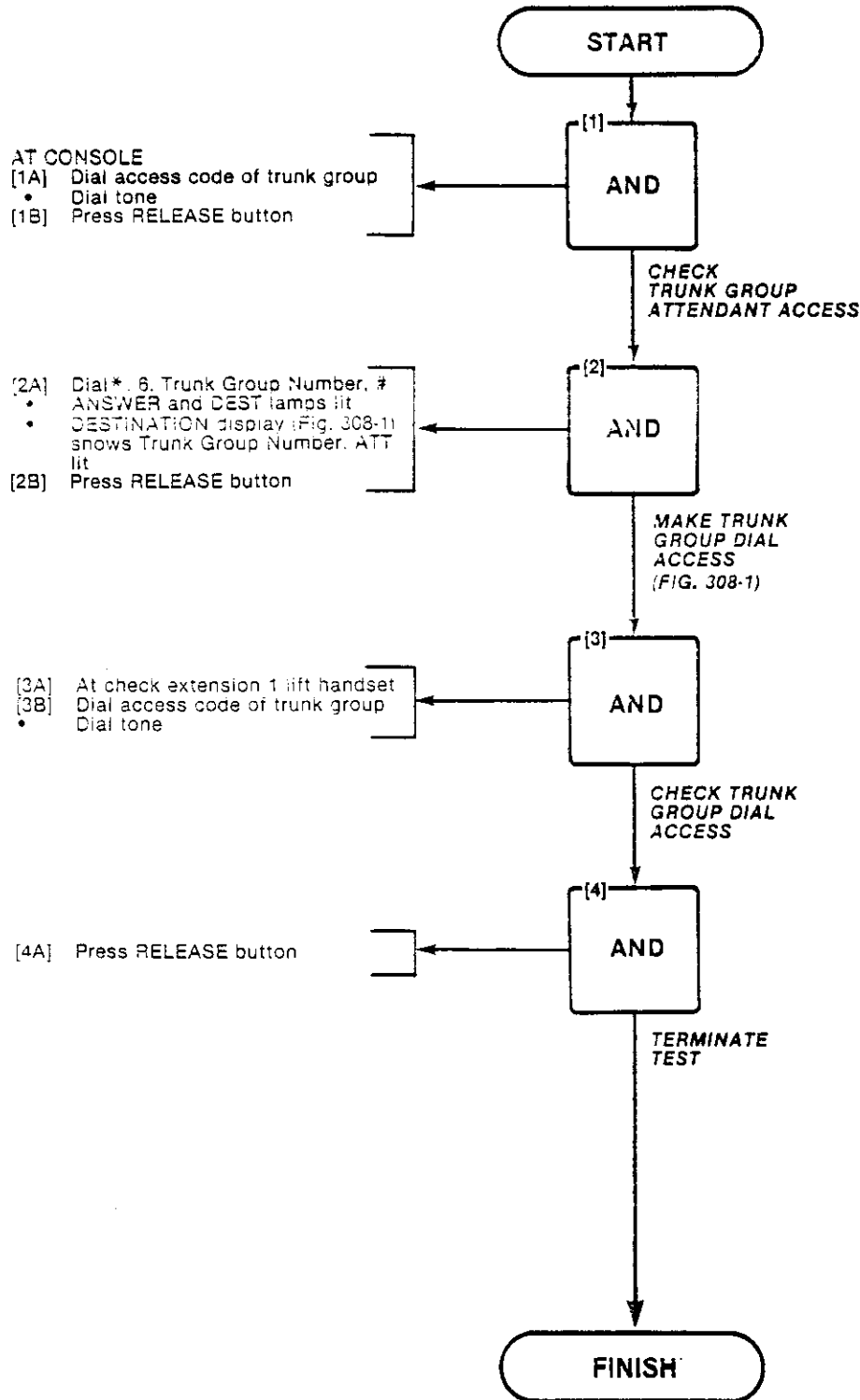


Fig. 307-2



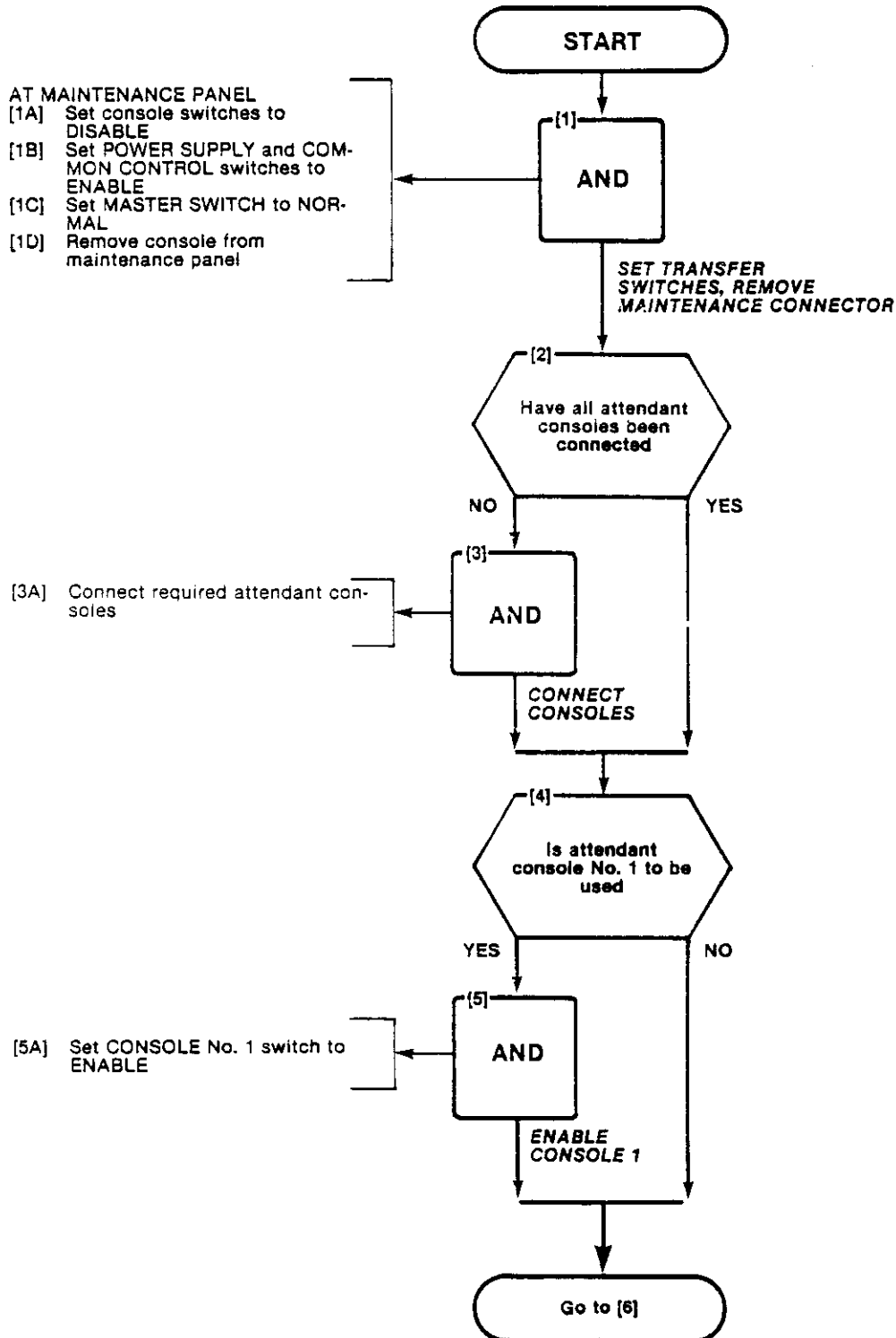
TRUNK GROUP DIAL ACCESS
MAP215-308
Issue 2, February 1982
Sheet 1 of 1





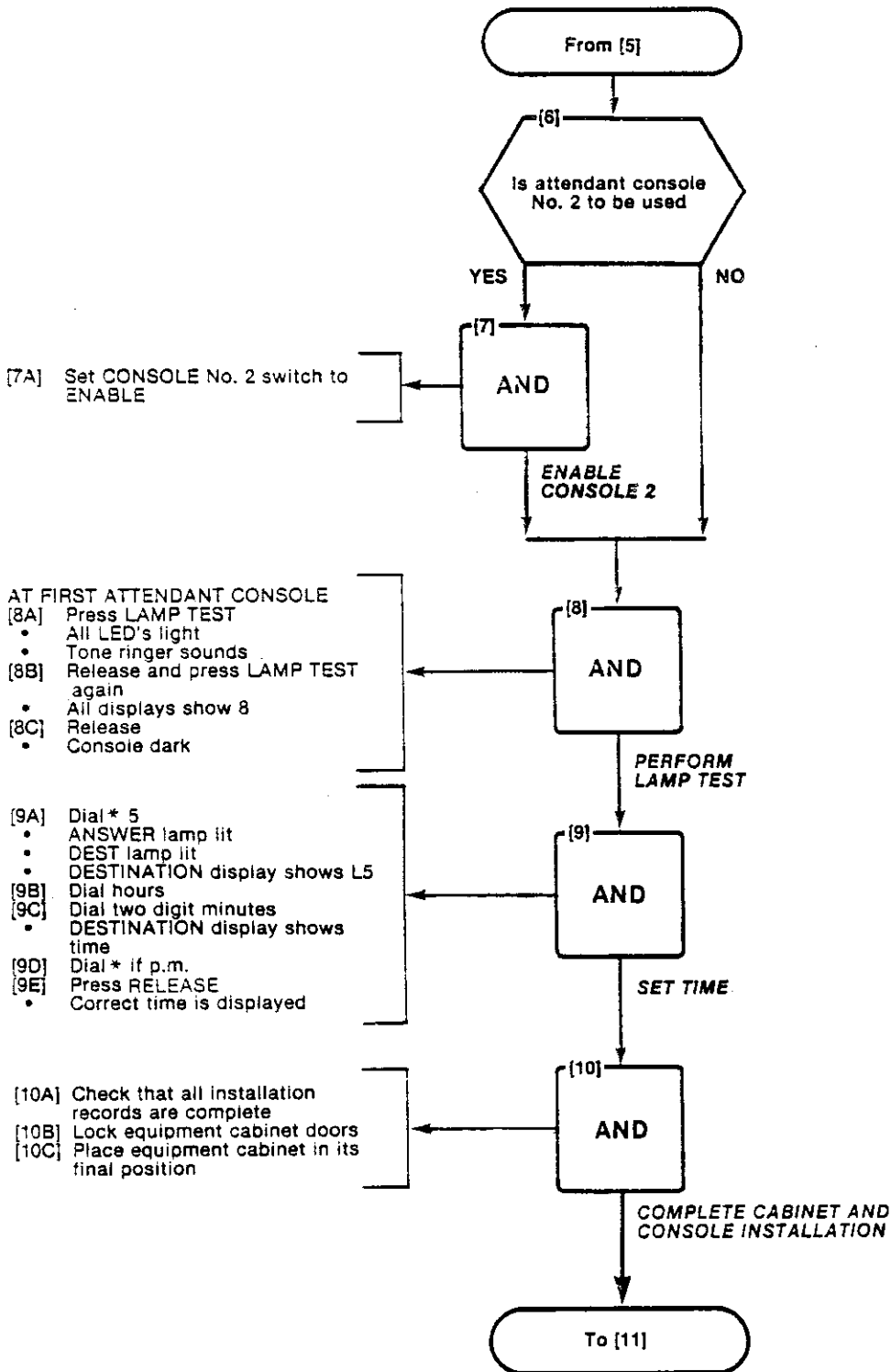


TEST TERMINATION
MAP215-309
Issue 2, February 1982
Sheet 1 of 5

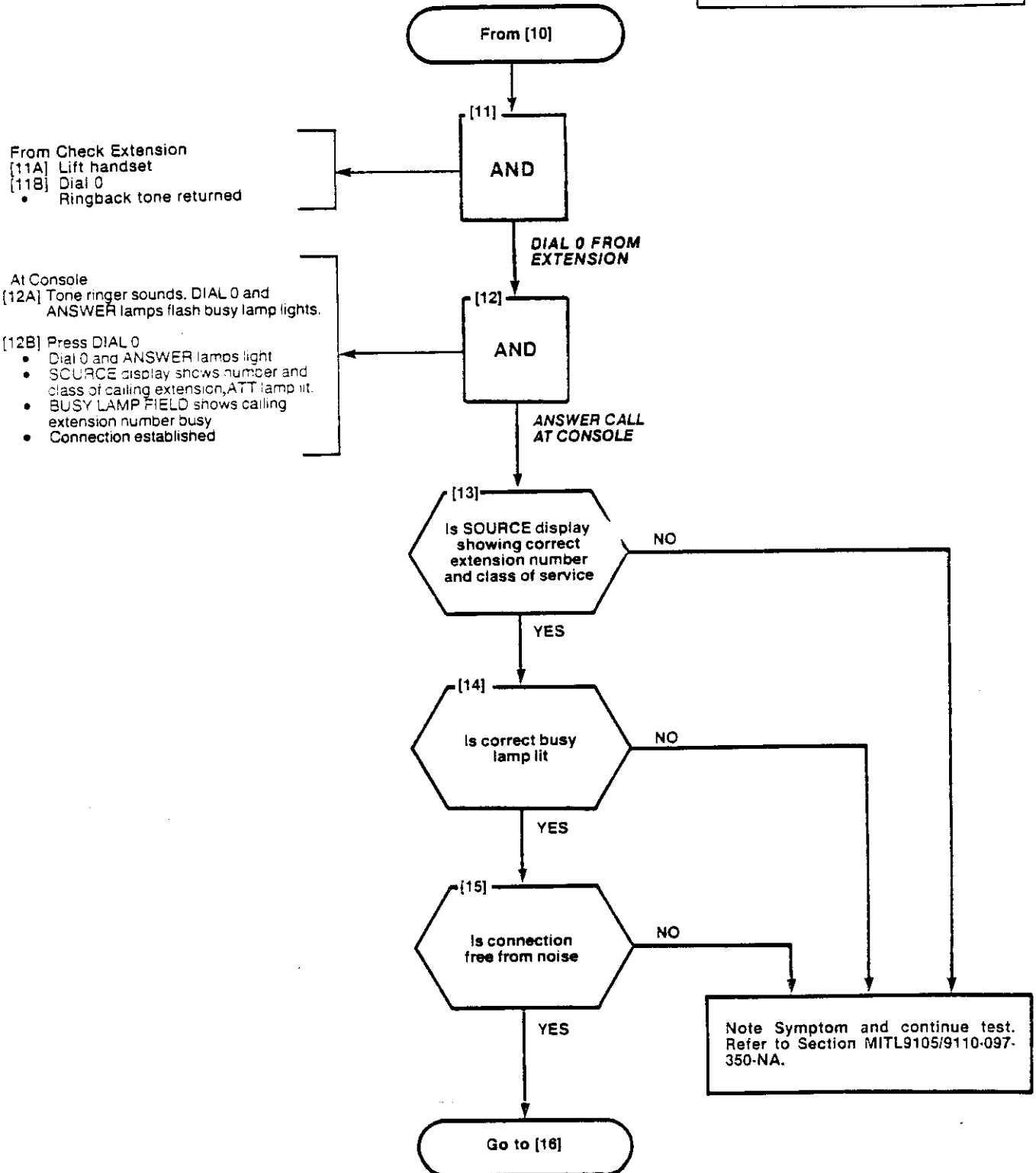


SECTION MITL9105/9110-097-215-NA

TEST TERMINATION
MAP215-309
Issue 2, February 1982
Sheet 2 of 5

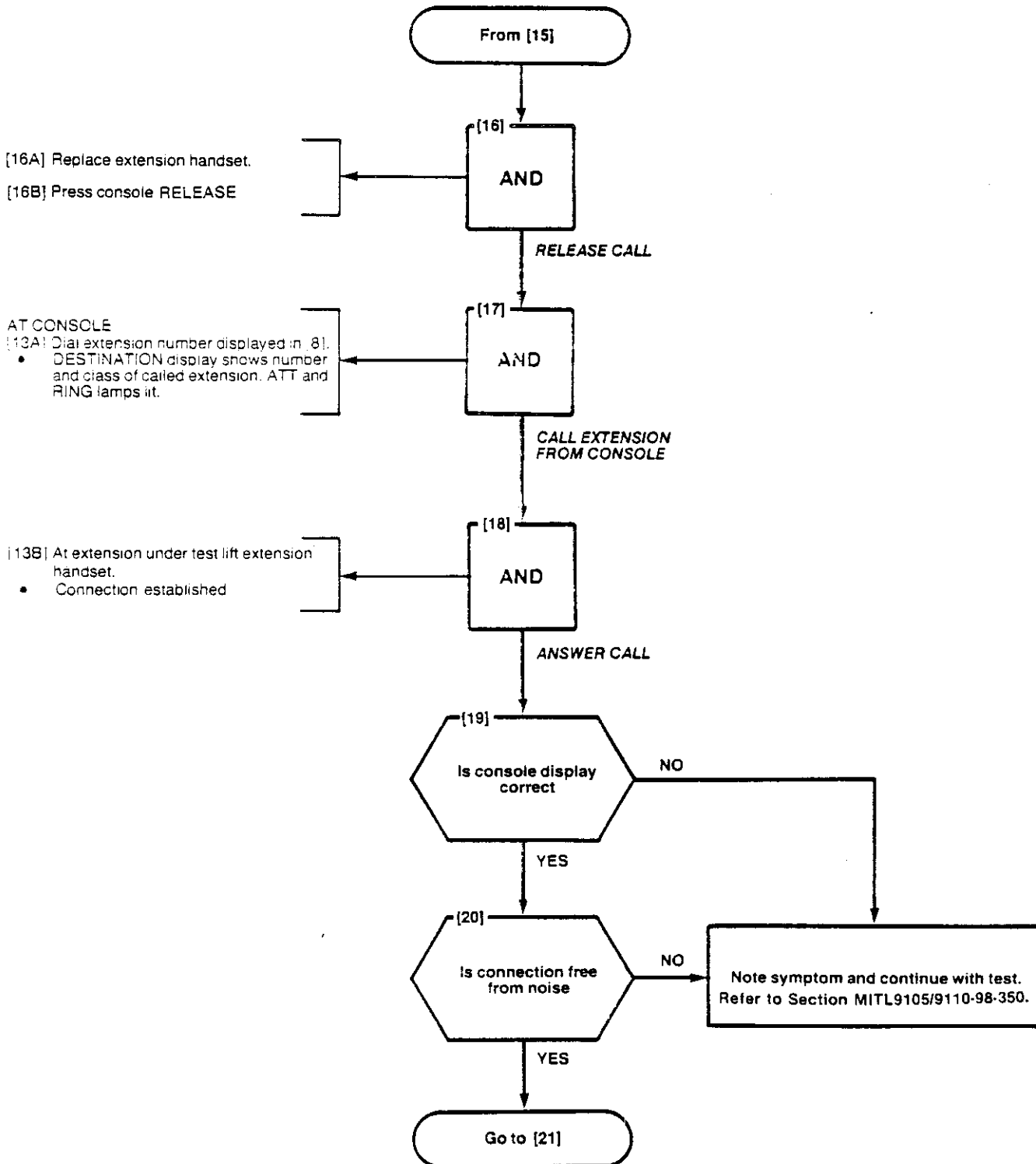


TEST TERMINATION
MAP215-309
Issue 2, February 1982
Sheet 3 of 5



SECTION MITL9105/9110-097-215-NA

TEST TERMINATION
MAP215-309
Issue 2, February 1982
Sheet 4 of 5

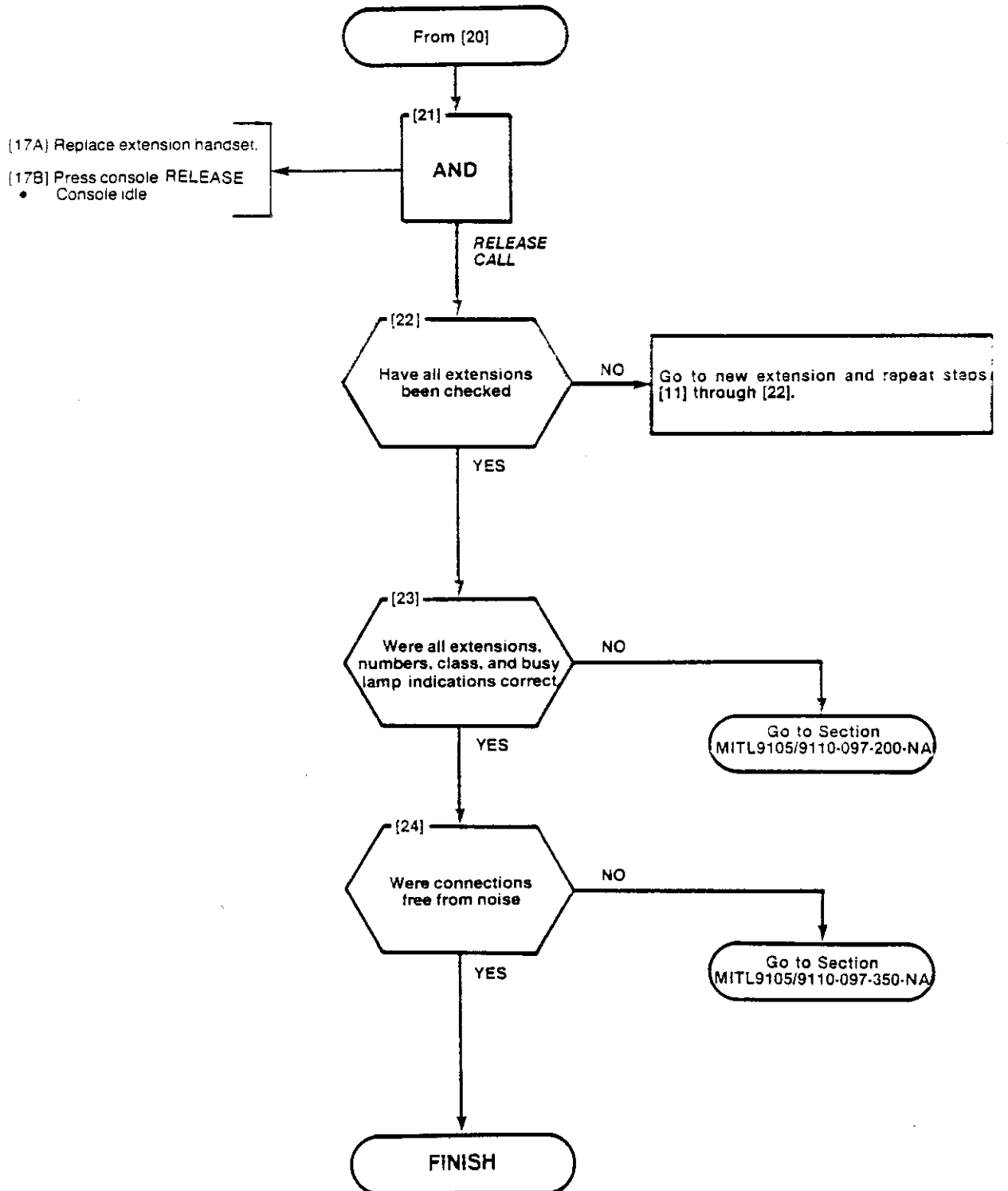


TEST TERMINATION

MAP215-309

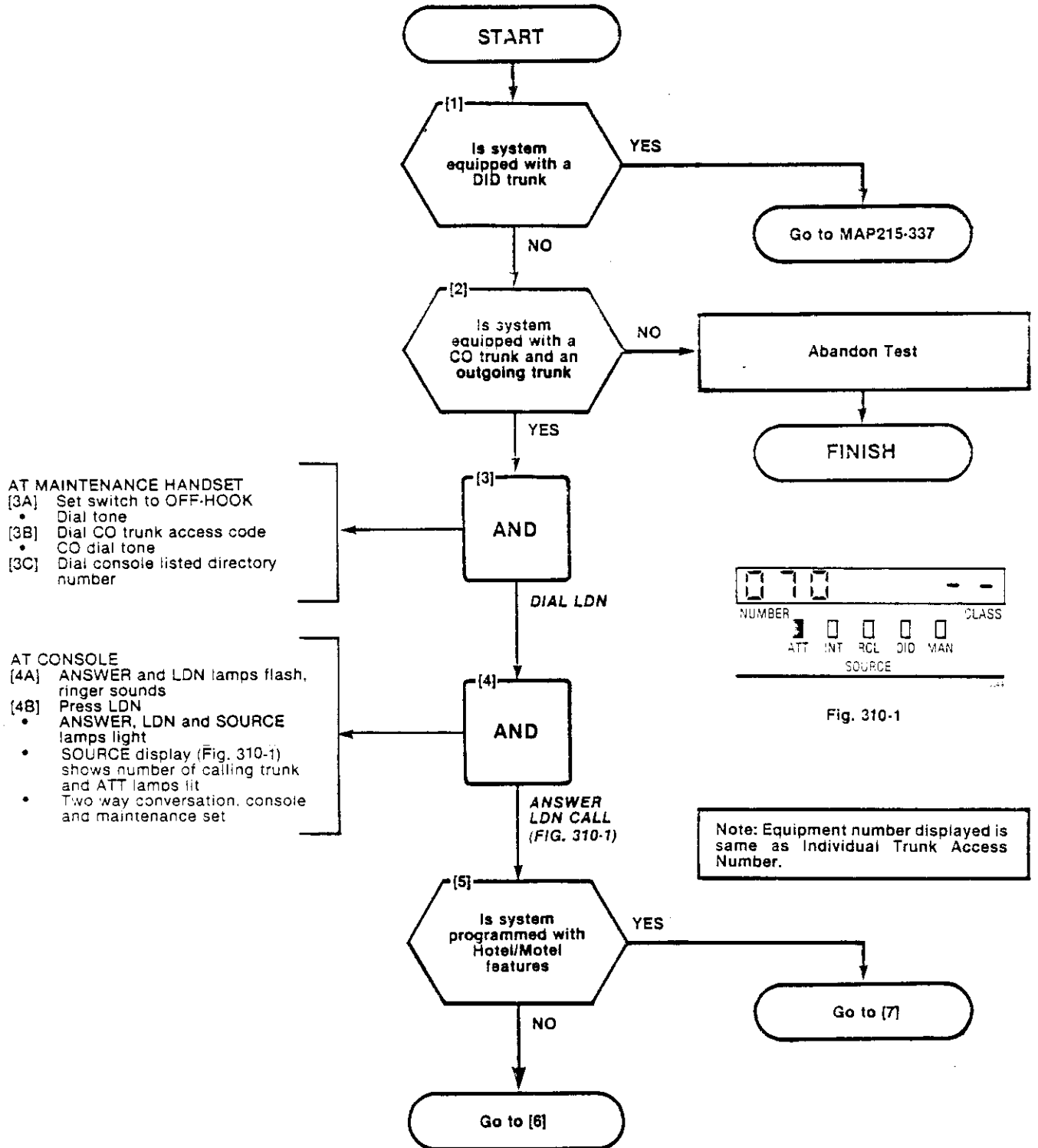
Issue 2, February 1982

Sheet 5 of 5





ANSWER INCOMING CO TRUNK CALL
MAP215-310
Issue 2, February 1982
Sheet 1 of 4



ANSWER INCOMING CO TRUNK CALL
MAP215-310
Issue 2, February 1982
Sheet 2 of 4

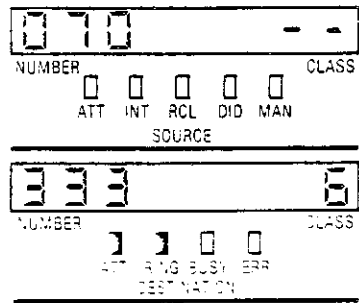
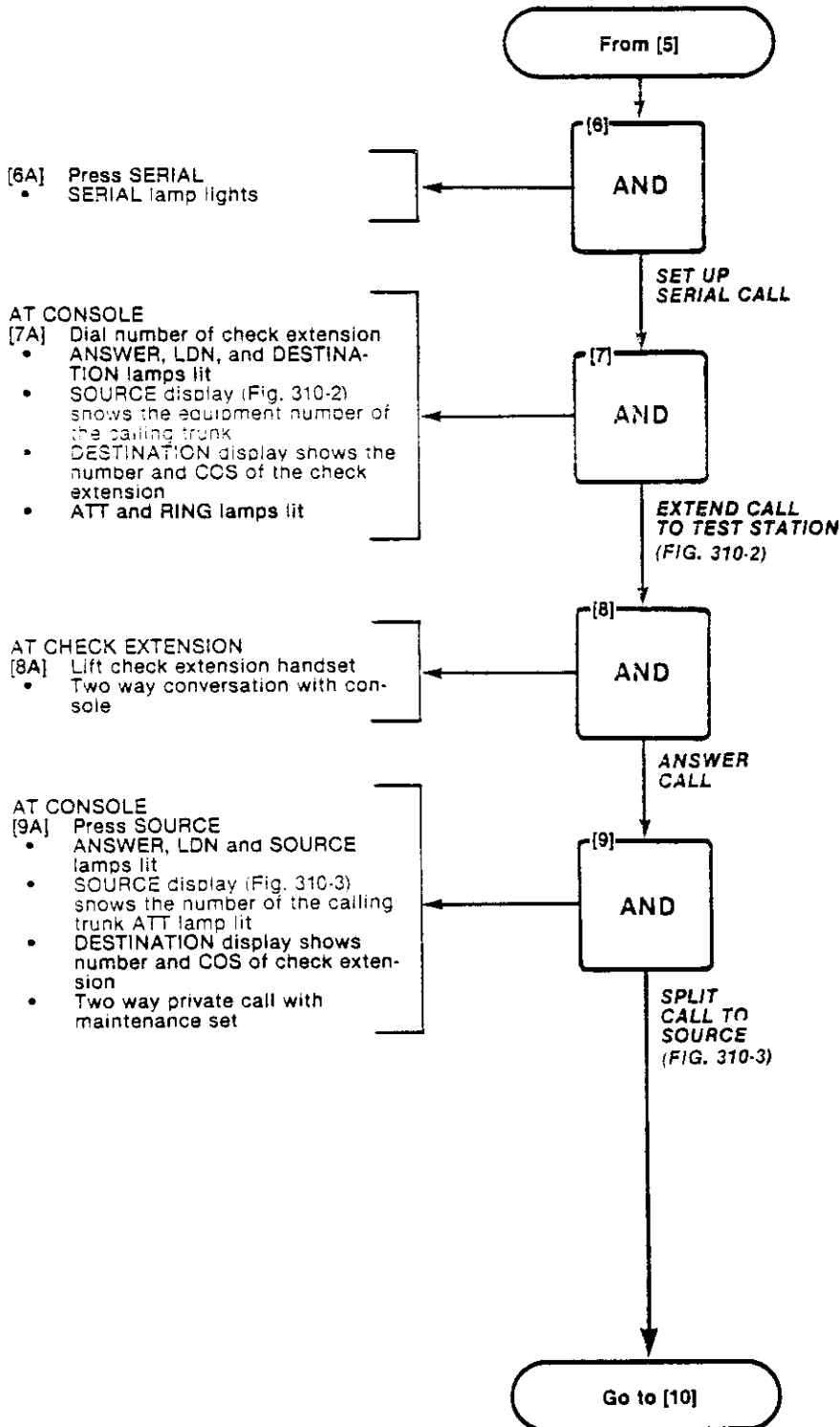


Fig. 310-2

Note: Equipment number displayed is same as Individual Trunk Access Number.

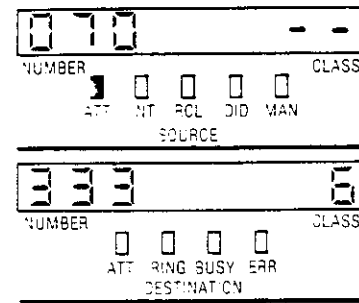


Fig. 310-3

Note: Equipment number displayed is same as Individual Trunk Access Number.



ANSWER INCOMING CO TRUNK CALL
MAP215-310
Issue 2, February 1982
Sheet 3 of 4

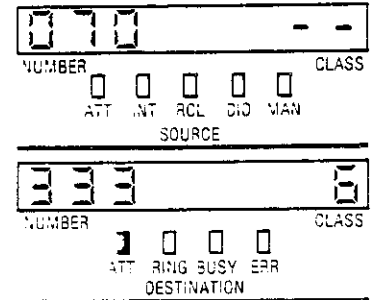
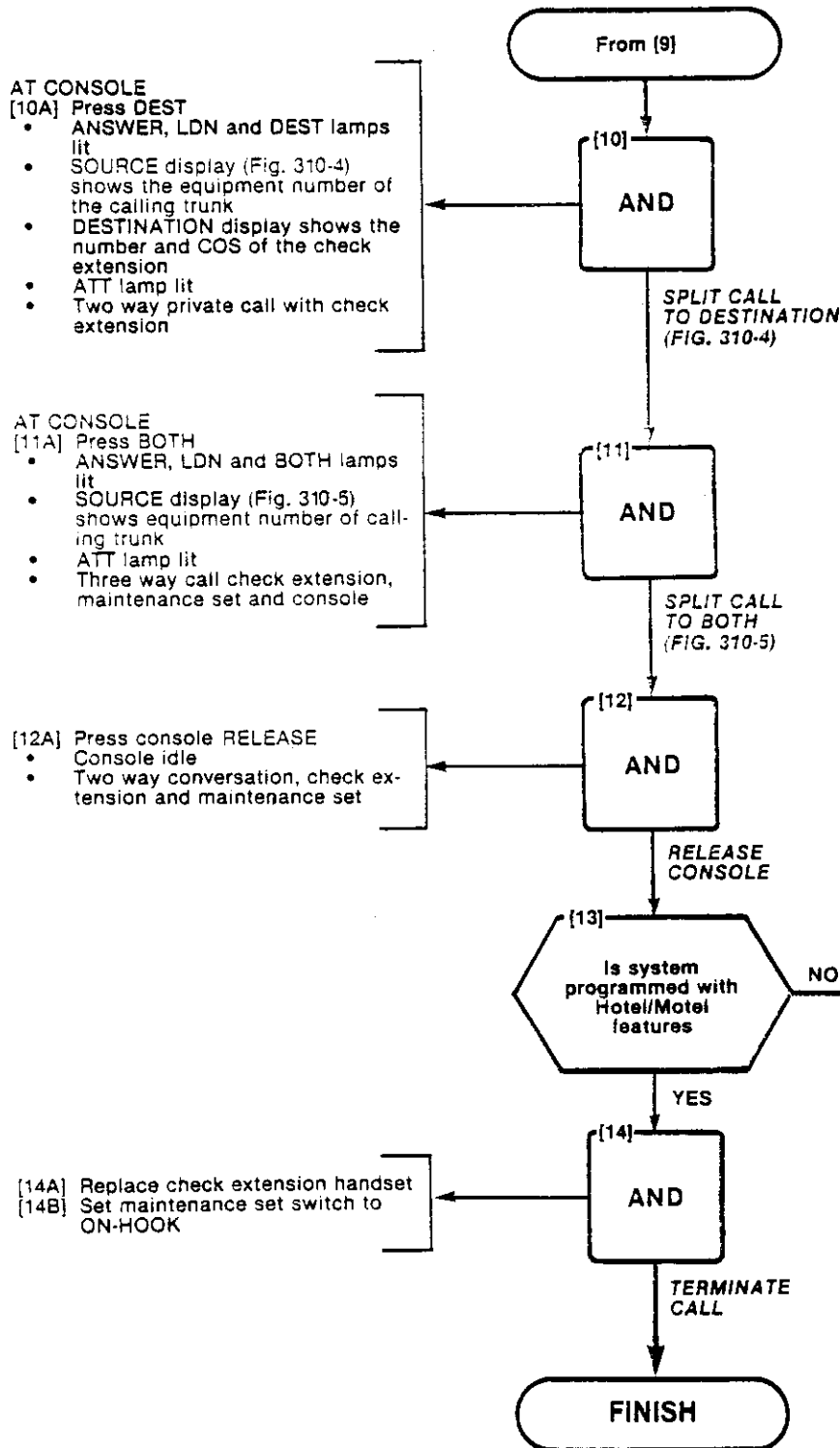


Fig. 310-4

Note: Equipment number displayed is same as Individual Trunk Access Number.

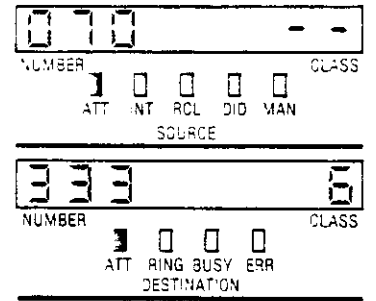


Fig. 310-5

SECTION MITL9105/9110-097-215-NA

ANSWER INCOMING CO TRUNK CALL
MAP215-310
Issue 2, February 1982
Sheet 4 of 4

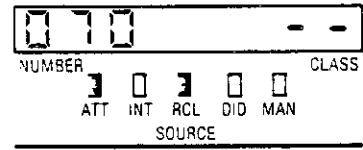
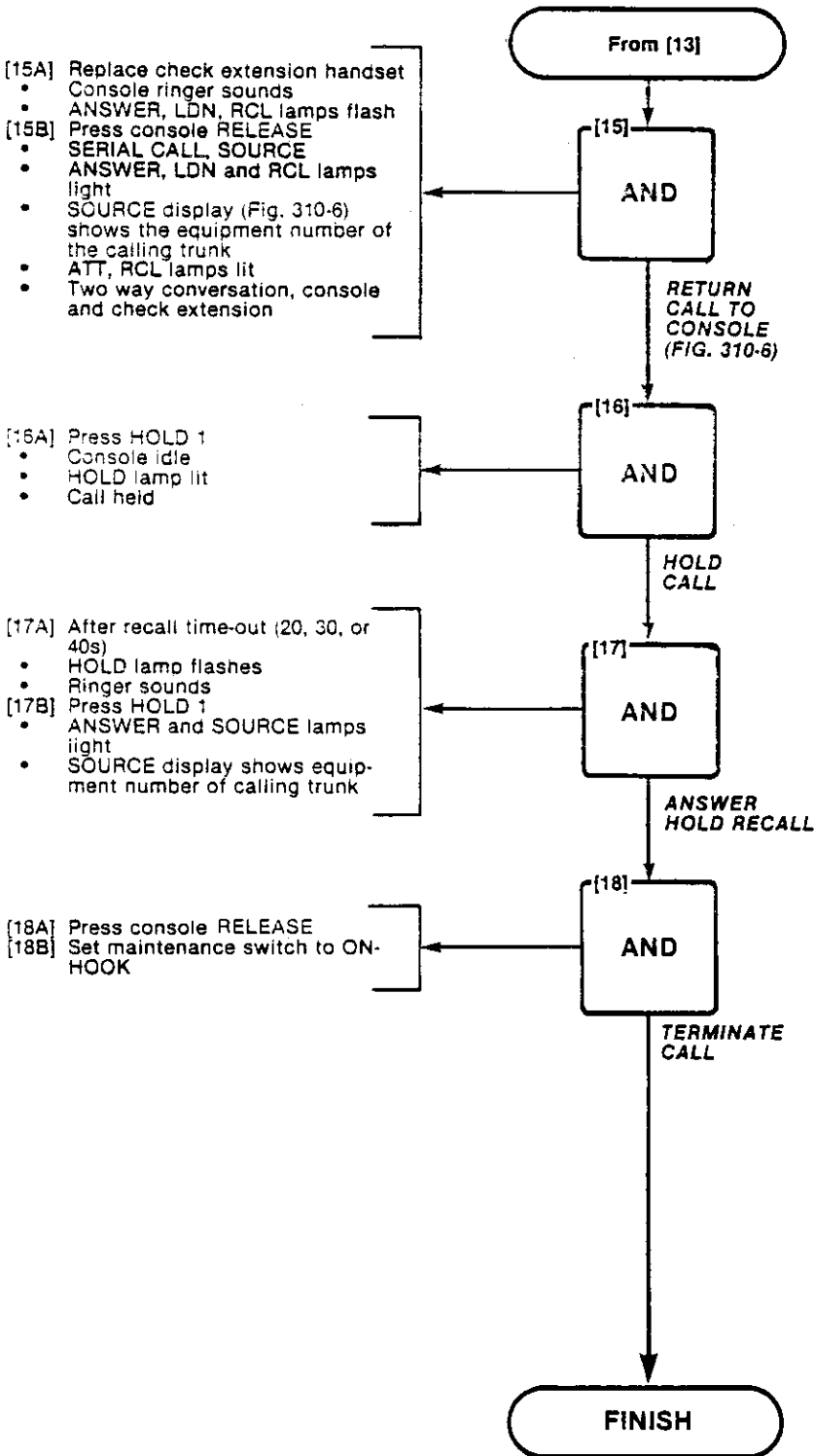
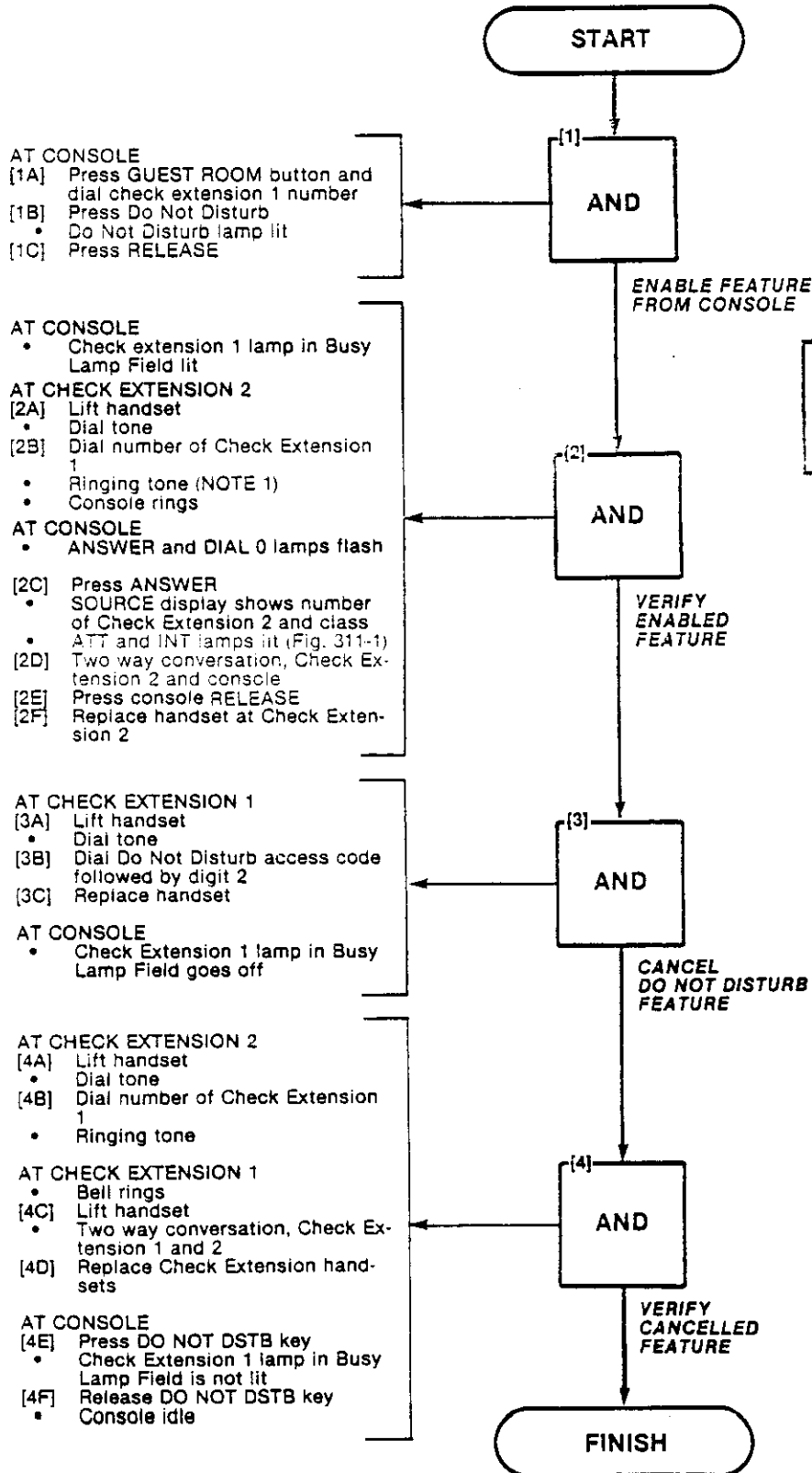


Fig. 310-6

ATTENDANT DO NOT DISTURB
MAP215-311
Issue 2, February 1982
Sheet 1 of 1



Note 1: Ring is given in sub-step [2B] if System Option 174 is selected. Otherwise reorder tone is given and remainder of [2] sub-steps are omitted.

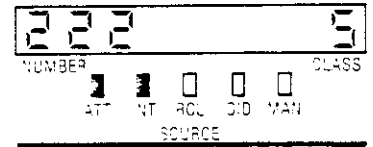


Fig. 311-1



MESSAGE WAITING
MAP215-312
Issue 2, February 1982
Sheet 1 of 2

**WARNING:** Pressing MSGE WAIT when console is active with an extension may activate or remove the feature at the extension.

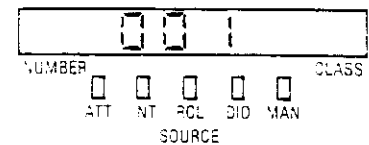
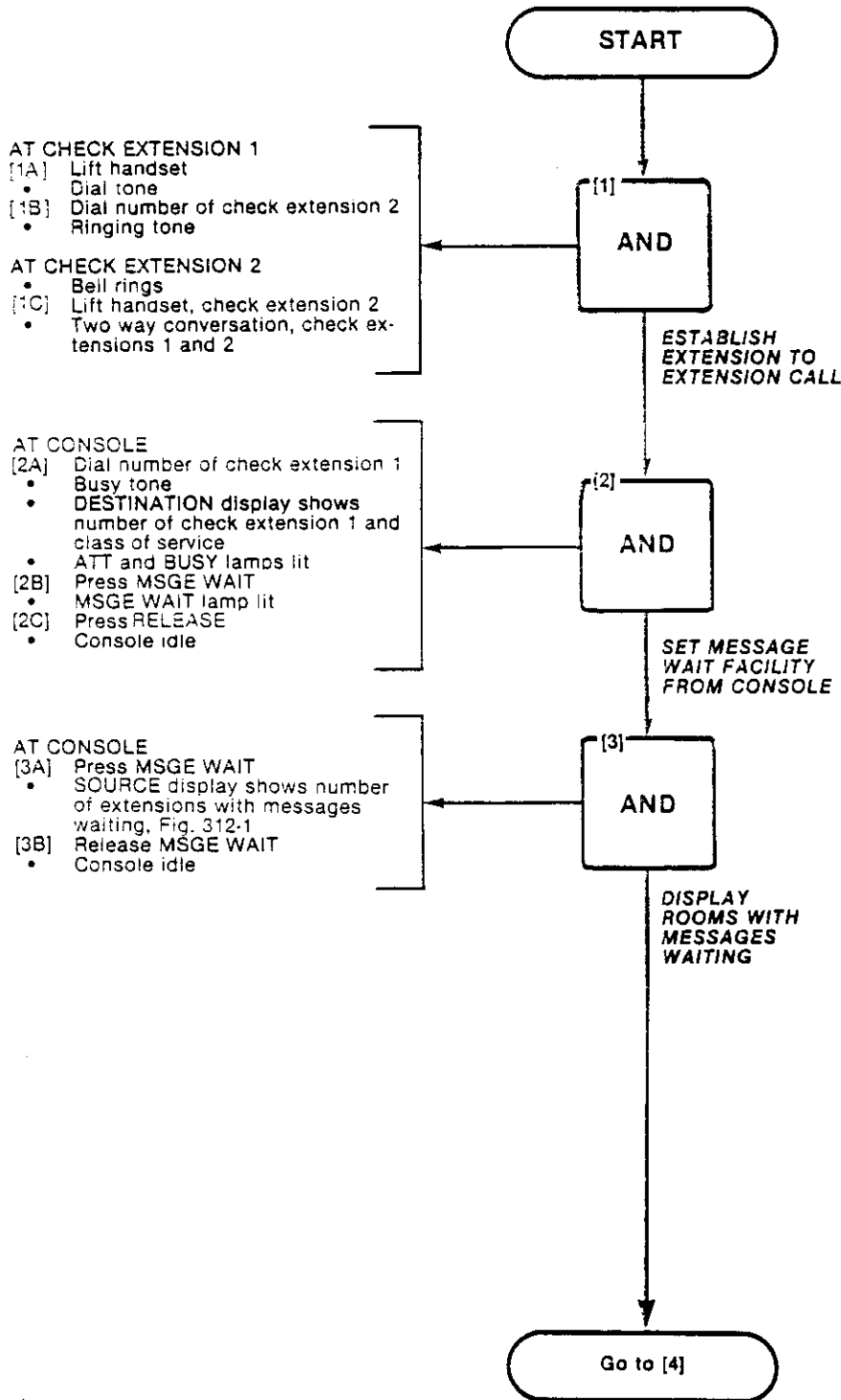
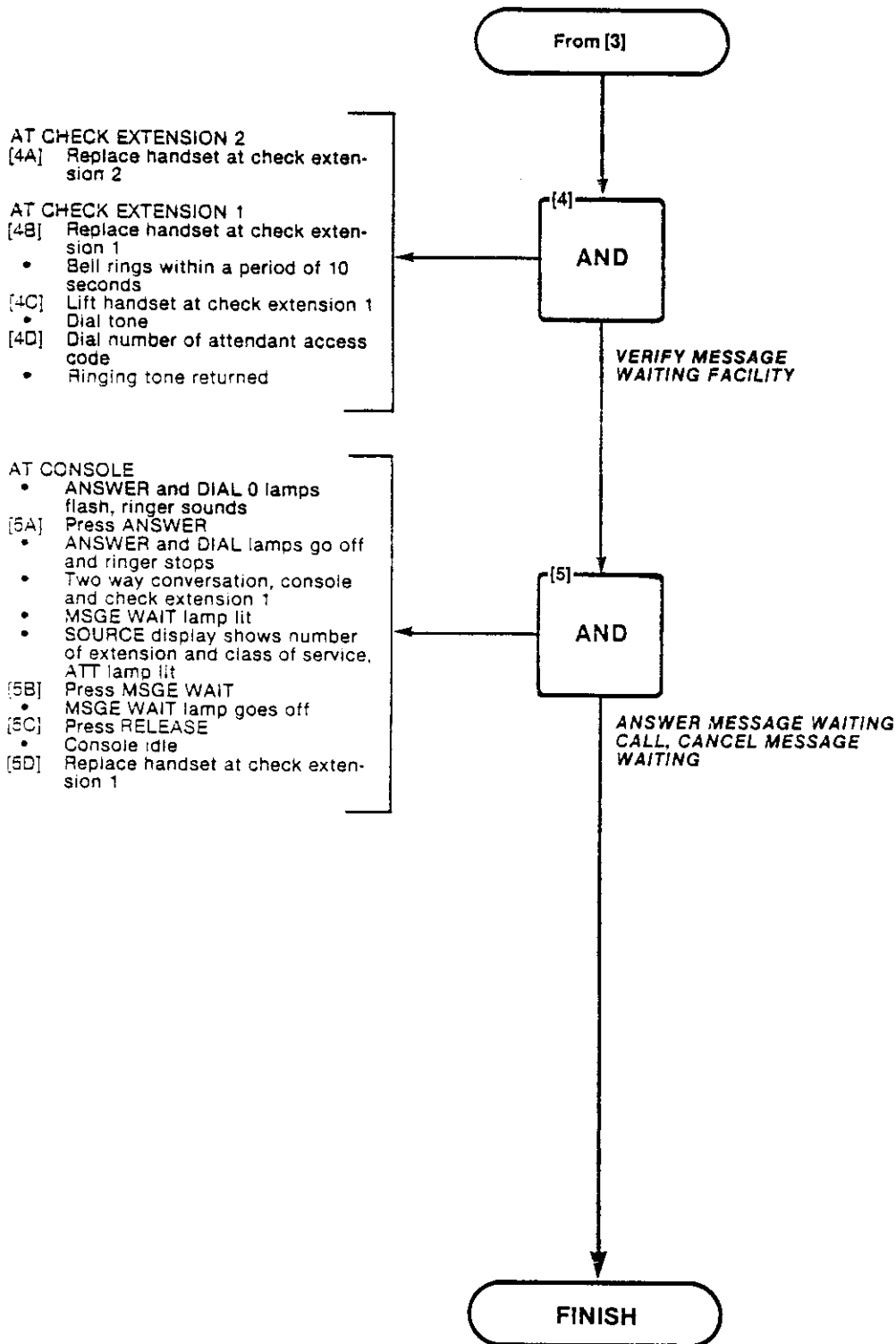


Fig. 312-1

MESSAGE WAITING
MAP215-312
Issue 2, February 1982
Sheet 2 of 2



ATTENDANT CALL FORWARDING - BUSY
MAP215-313
Issue 2, February 1982
Sheet 1 of 2

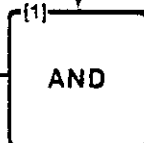
Note  
See also MAP215-333 for External Call Forwarding

- AT CONSOLE**
- [1A] Dial \* 11333
  - SOURCE display shows check extension 1 number and "1" (no forward code), Fig. 313-1
  - [1B] Dial 1222
  - SOURCE display shows check extension 1 number and "1" (busy code) (Fig. 313-2)
  - DESTINATION display shows check extension 2 number, ATT lamp lit
  - [1C] Press RELEASE
  - Console idle

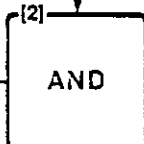
- AT CHECK EXTENSION 1**
- [2A] Lift handset
  - Dial tone
- AT MAINTENANCE HANDSET**
- [2B] Set switch to OFF-HOOK
  - Dial tone
  - [2C] Dial number of check extension 1
  - Check extension 2 rings
  - [2D] Replace check extension 1 handset and place maintenance handset switch to ON-HOOK

- AT MAINTENANCE HANDSET**
- [3A] Set switch to OFF-HOOK
  - Dial tone
  - [3B] Dial number of check extension 1
  - Check extension 1 rings

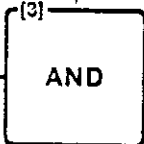
- AT CONSOLE**
- [4A] Dial \* 11333
  - SOURCE display shows check extension 1 number and "busy" code (1), ATT lamp lit
  - DESTINATION shows check extension 2 number (see Fig. 313-2)
  - [4B] Dial #
  - [4C] Press RELEASE
- AT CHECK EXTENSION 1**
- [4D] Lift handset
  - Dial tone



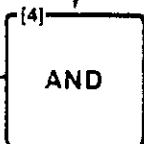
SET UP  
CALL FORWARDING  
BUSY (CONSOLE)



VERIFY CALL FORWARDING  
BUSY - NUMBER BUSY



VERIFY CALL FORWARDING  
BUSY - NUMBER IDLE



CANCEL CALL  
FORWARDING BUSY

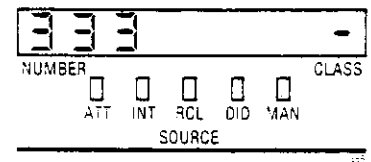
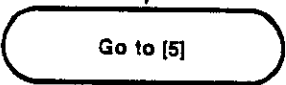


Fig. 313-1

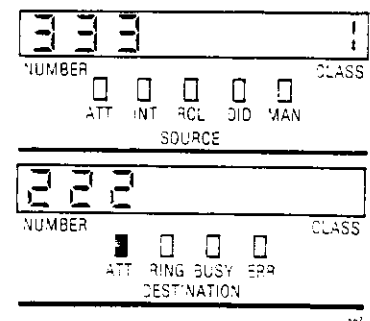
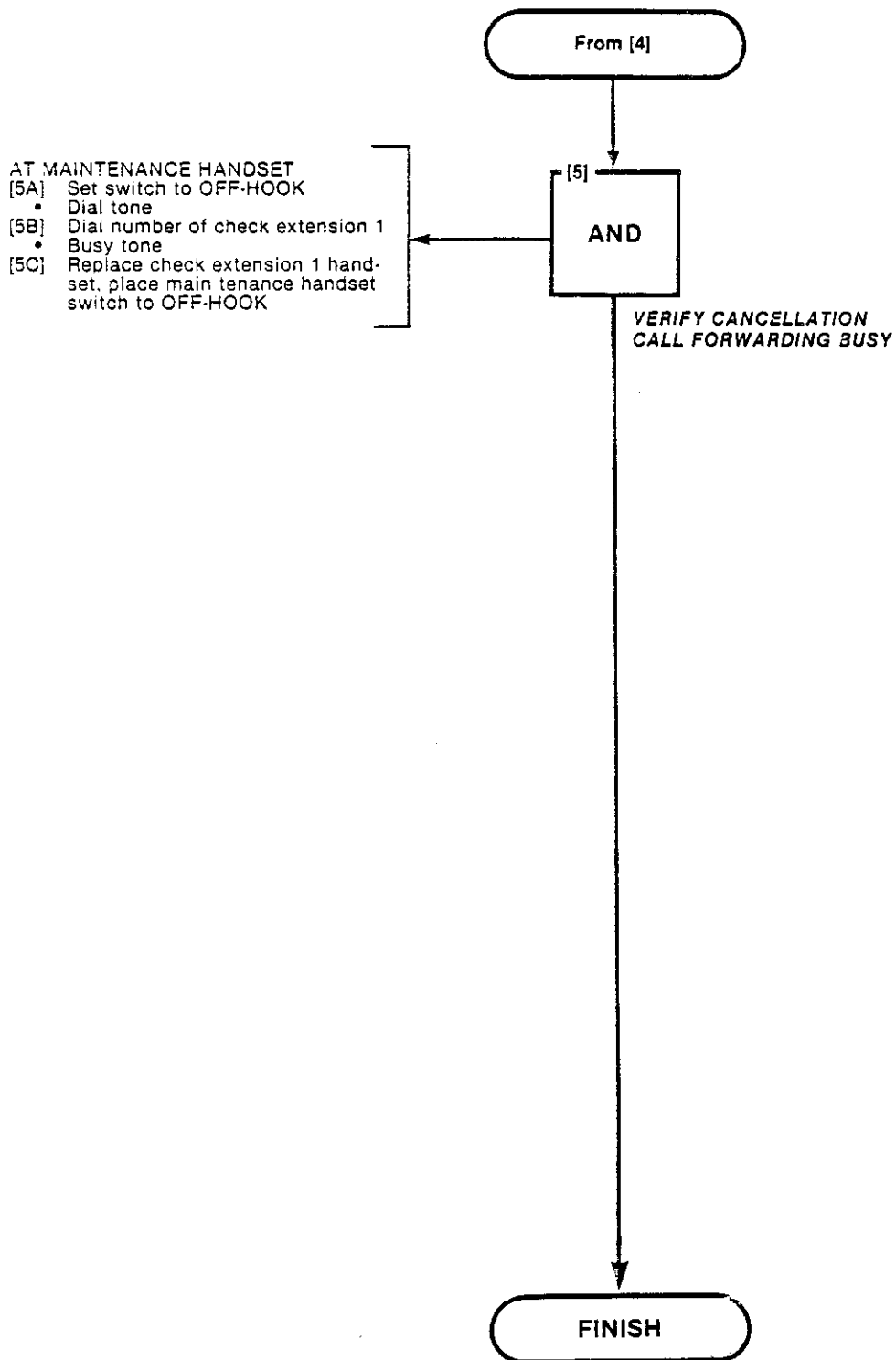


Fig. 313-2

SECTION MITL9105/9110-097-215-NA

ATTENDANT CALL FORWARDING - BUSY
MAP215-313
Issue 2, February 1982
Sheet 2 of 2





ATTENDANT CALL FORWARDING - DON'T ANSWER
MAP215-314
Issue 2, February 1982
Sheet 1 of 1

Note  
See also MAP215-333 for External Call Forwarding

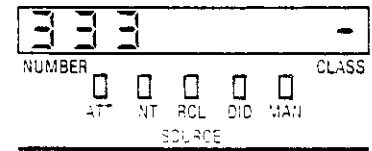
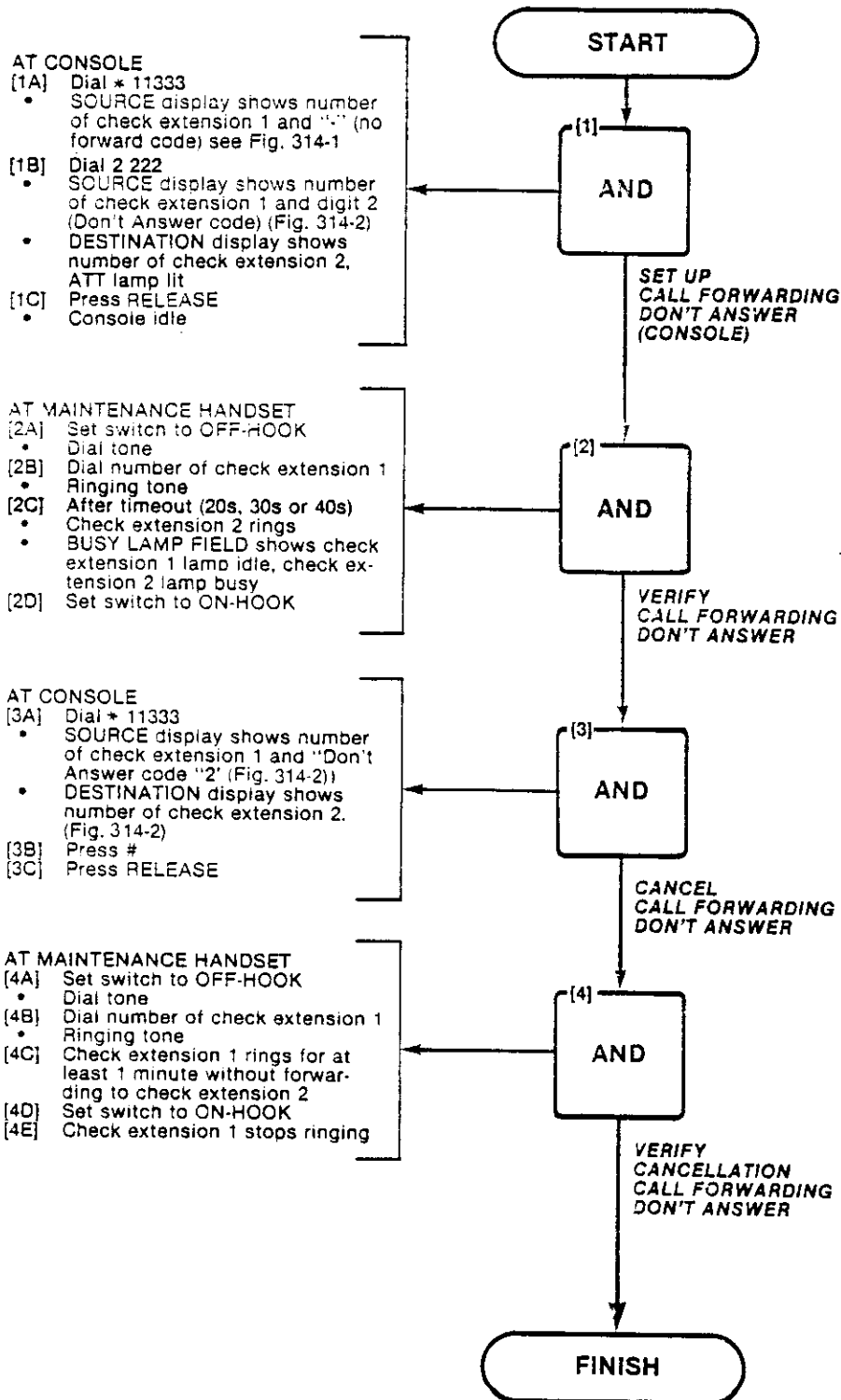


Fig. 314-1

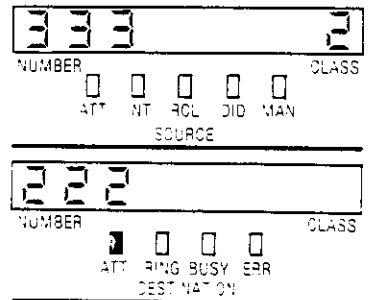
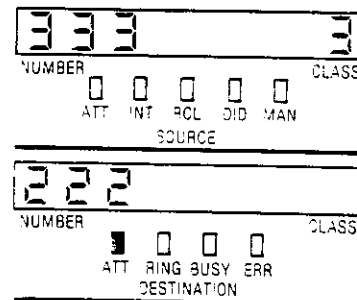
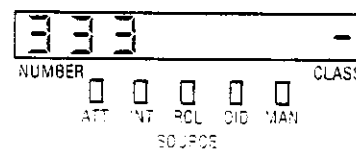
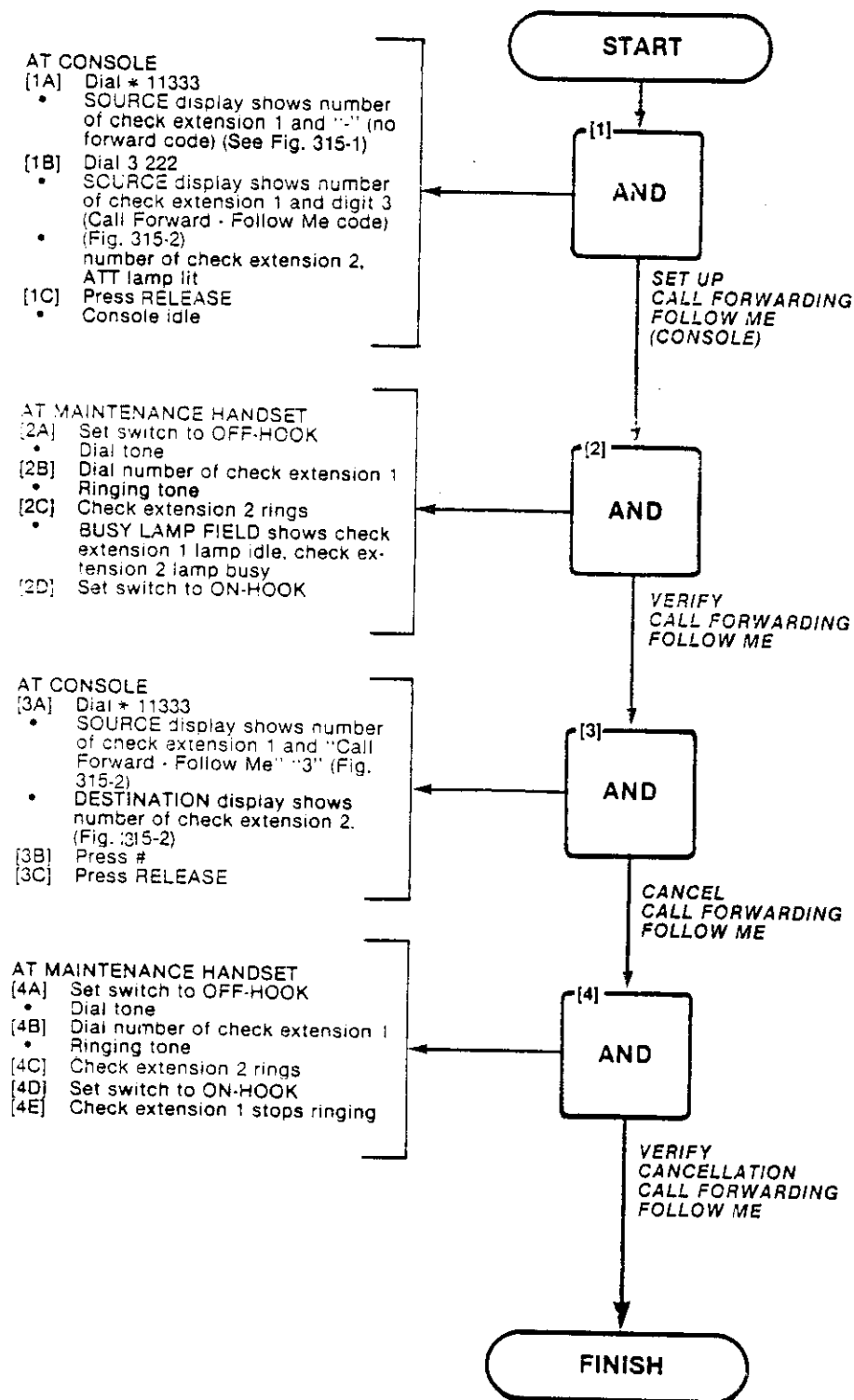


Fig. 314-2



ATTENDANT CALL FORWARDING - FOLLOW ME
MAP215-315
Issue 2, February 1982
Sheet 1 of 1

**Note**  
See also MAP215-333 for External Call Forwarding





ATTENDANT CALL FORWARDING BUSY/DON'T ANSWER
MAP215-316
Issue 2, February 1982
Sheet 1 of 1

Note  
See also MAP215-335 for External Call Forwarding

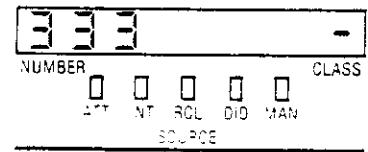
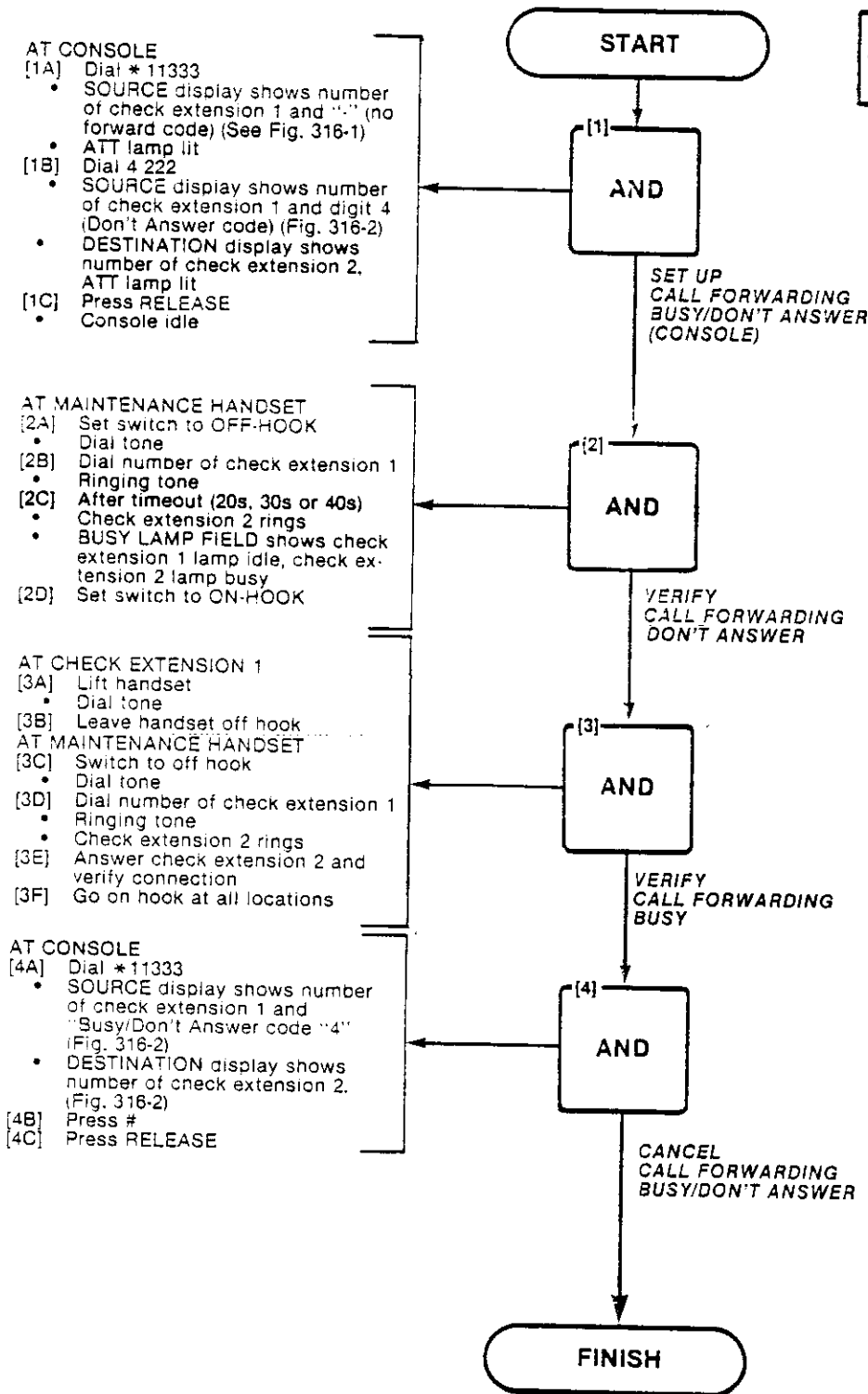


Fig. 316-1

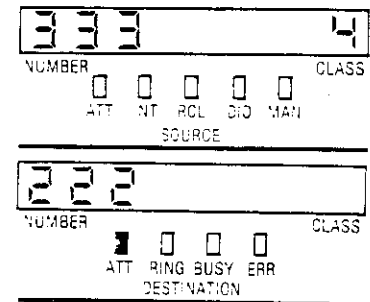


Fig. 316-2



ATTENDANT CONTROLLED CONFERENCE
MAP215-317
Issue 2, February 1982
Sheet 1 of 2

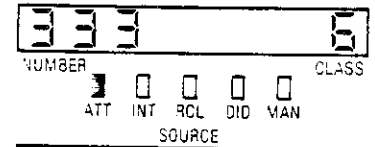
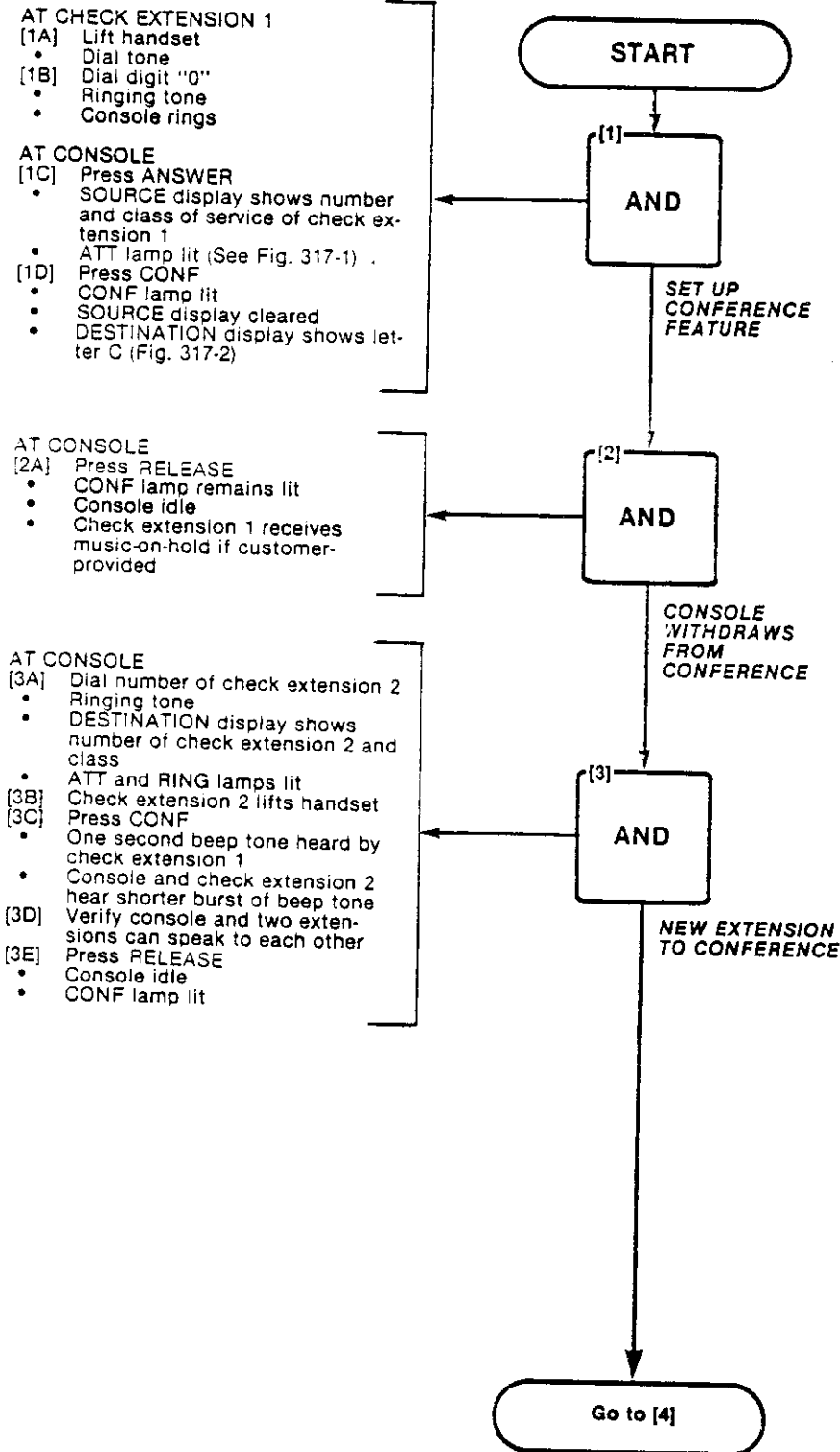


Fig. 317-1

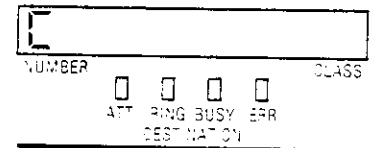
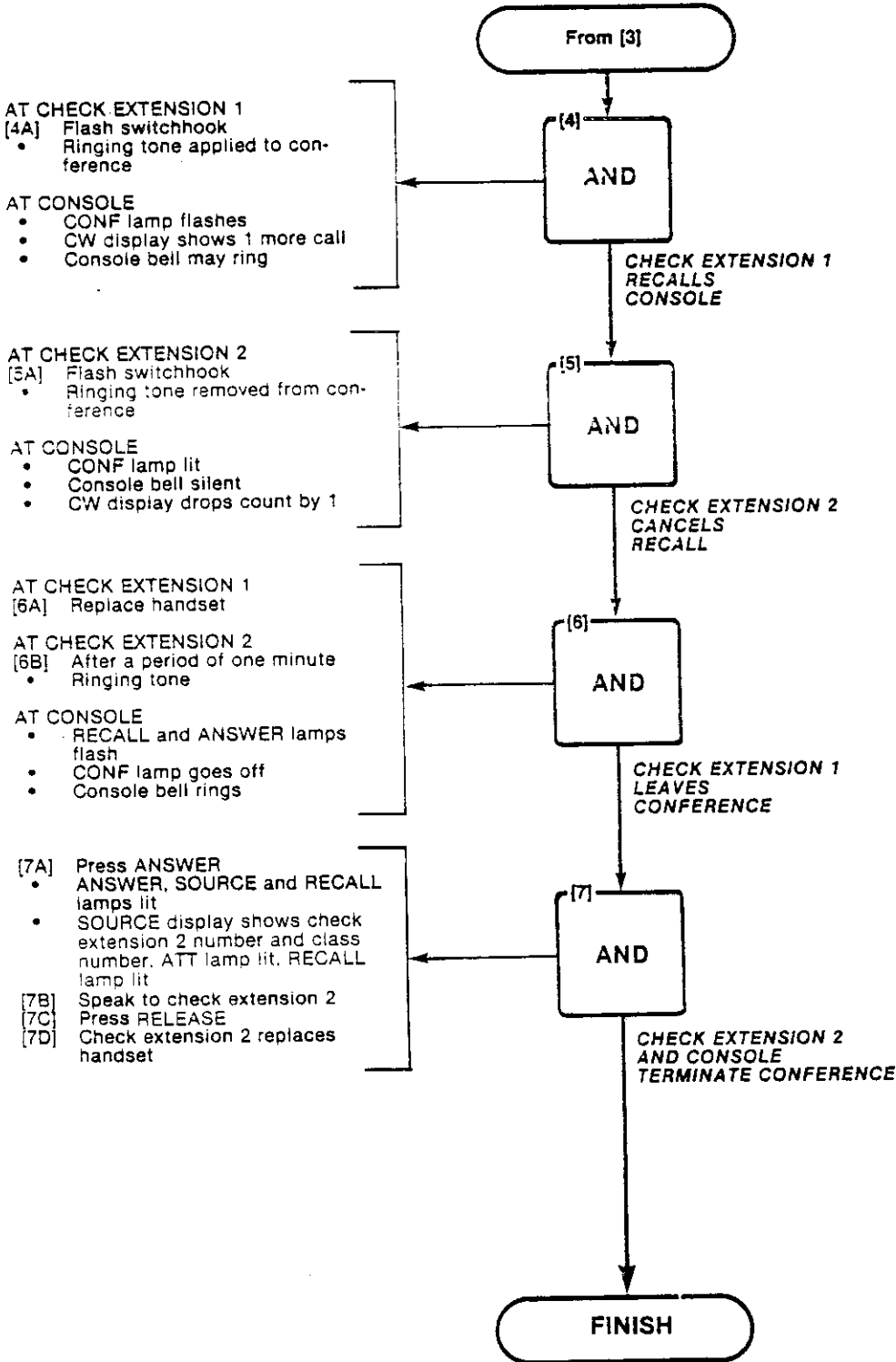


Fig. 317-2

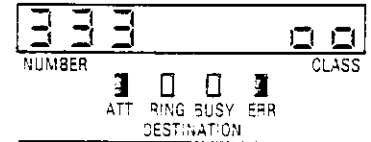
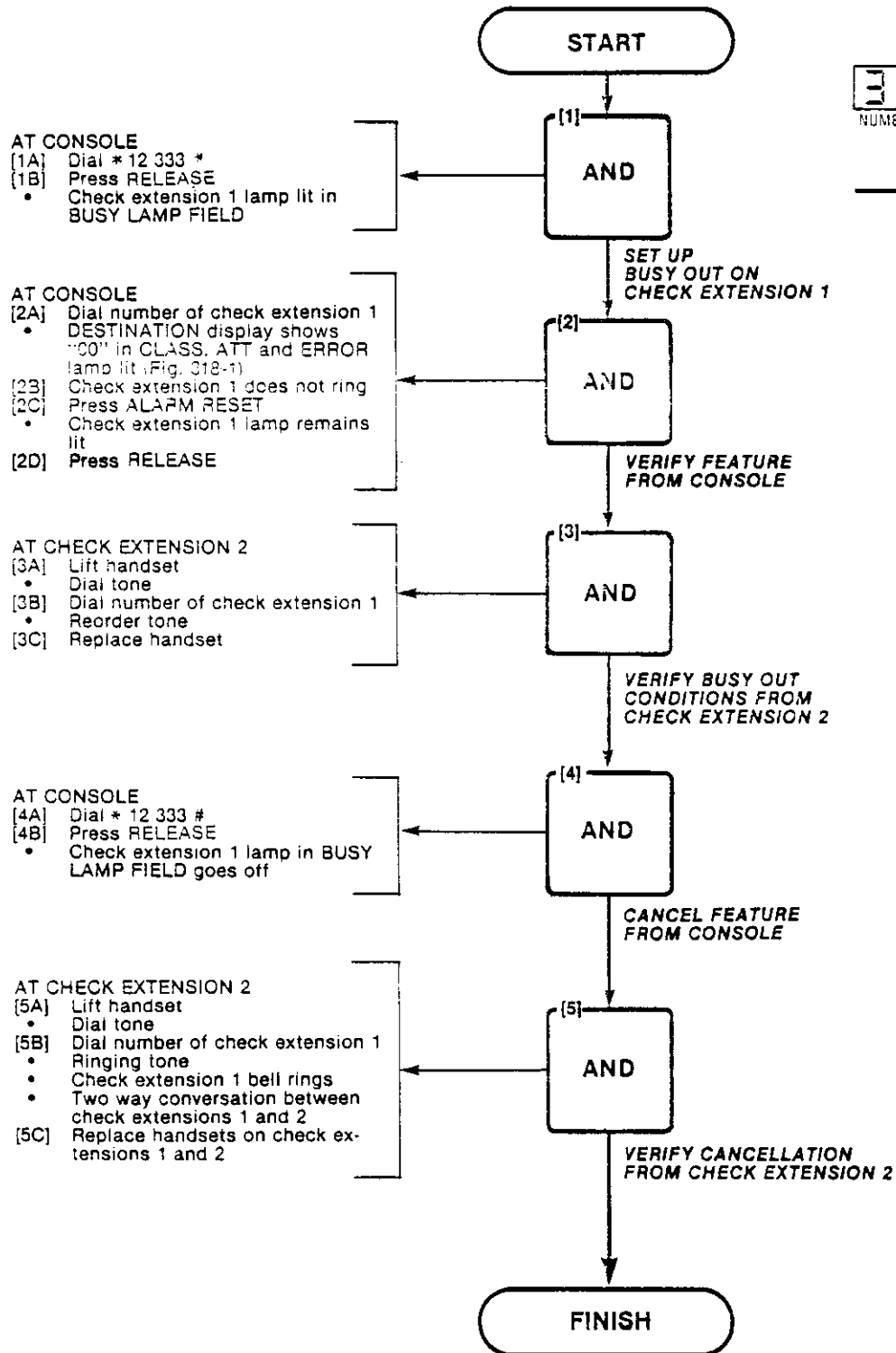
SECTION MITL9105/9110-097-215-NA

ATTENDANT CONTROLLED CONFERENCE
MAP215-317
Issue 2, February 1982
Sheet 2 of 2





ATTENDANT STATION BUSY-OUT
MAP215-318
Issue 2, February 1982
Sheet 1 of 1



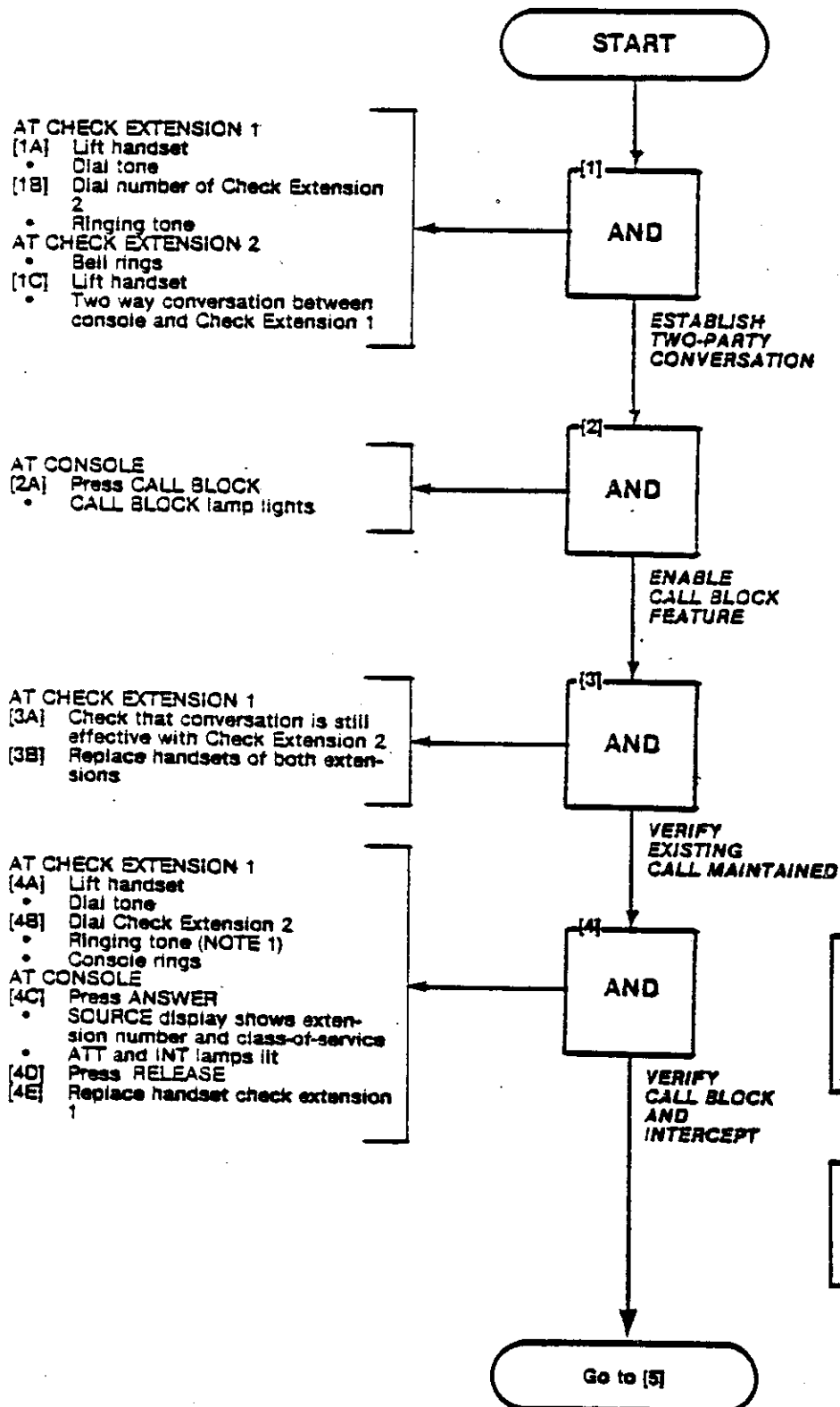


CALL BLOCK

MAP215-319

Issue 2, February 1982

Sheet 1 of 2

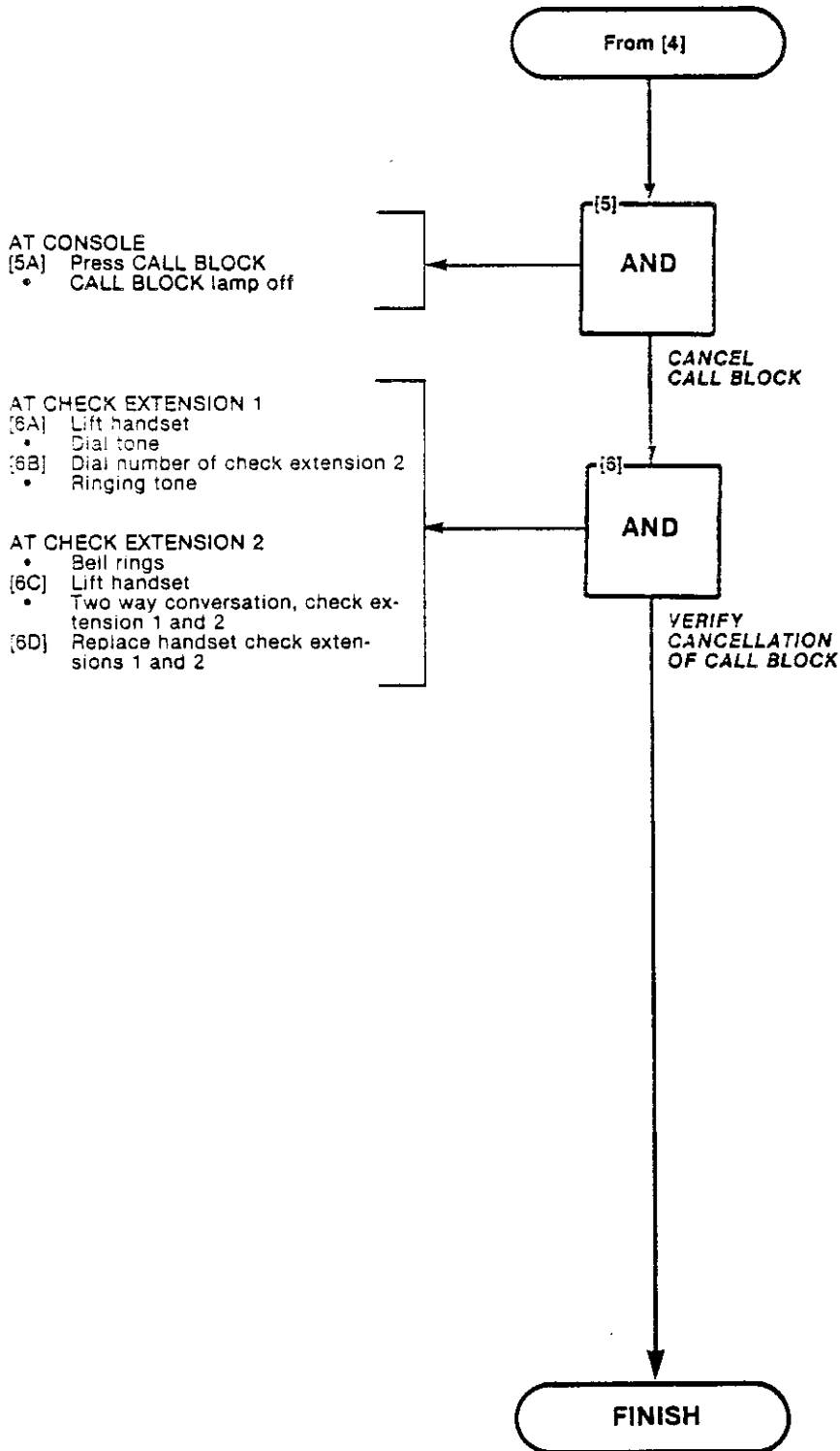


Note 1: Procedure applies if System Option 116 is in effect. If System Option 116 is not enabled then reorder tone is obtained at Step [4B], and Steps [4C] and [4D] do not apply.

Note 2: For an extension to be subject to Call Blocking it must have COS Option 63 in its COS.

SECTION MITL9105/9110-097-215-NA

CALL BLOCK
MAP215-319
Issue 2, February 1982
Sheet 2 of 2



ATTENDANT DO NOT DISTURB (H/M)
MAP215-320
Issue 2, February 1982
Sheet 1 of 3

**WARNING:** Pressing DO NOT DISTURB key when console is active with an extension may activate or remove the feature at the extension.

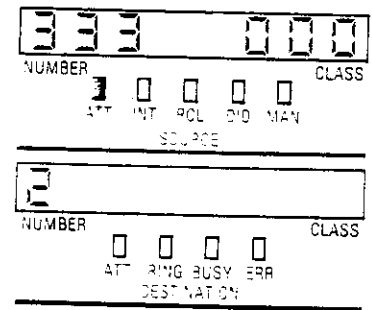
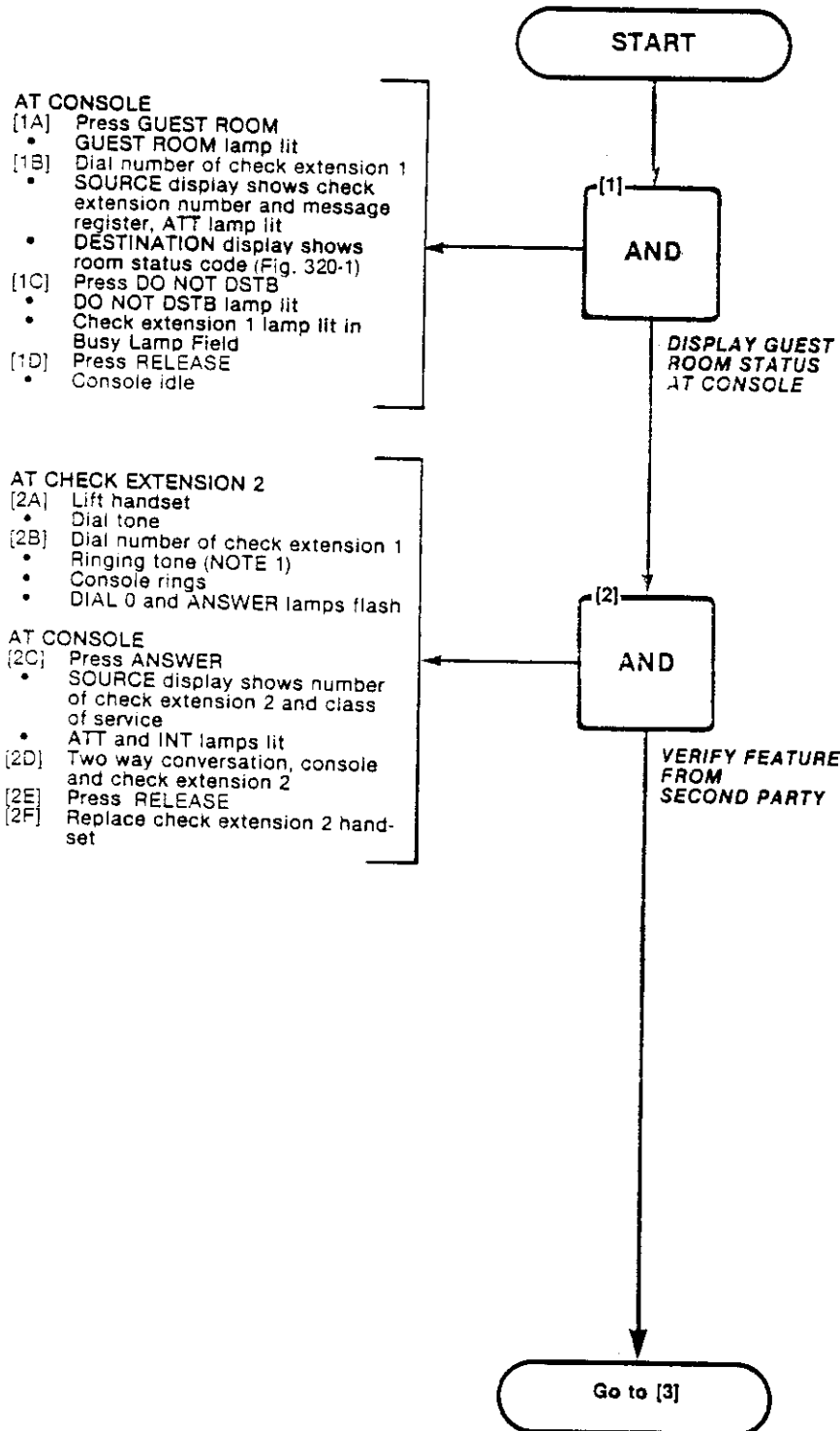


Fig. 320-1

**Note 1:** Ringing is given in sub-step [2B] if System Option 174 is selected. Otherwise, reorder tone is given and remainder of step [2] is omitted.

SECTION MITL9105/9110-097-215-NA

ATTENDANT DO NOT DISTURB (H/M)
MAP215-320
Issue 2, February 1982
Sheet 2 of 3

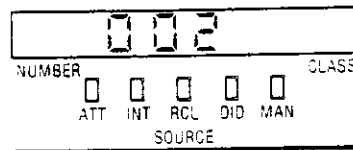
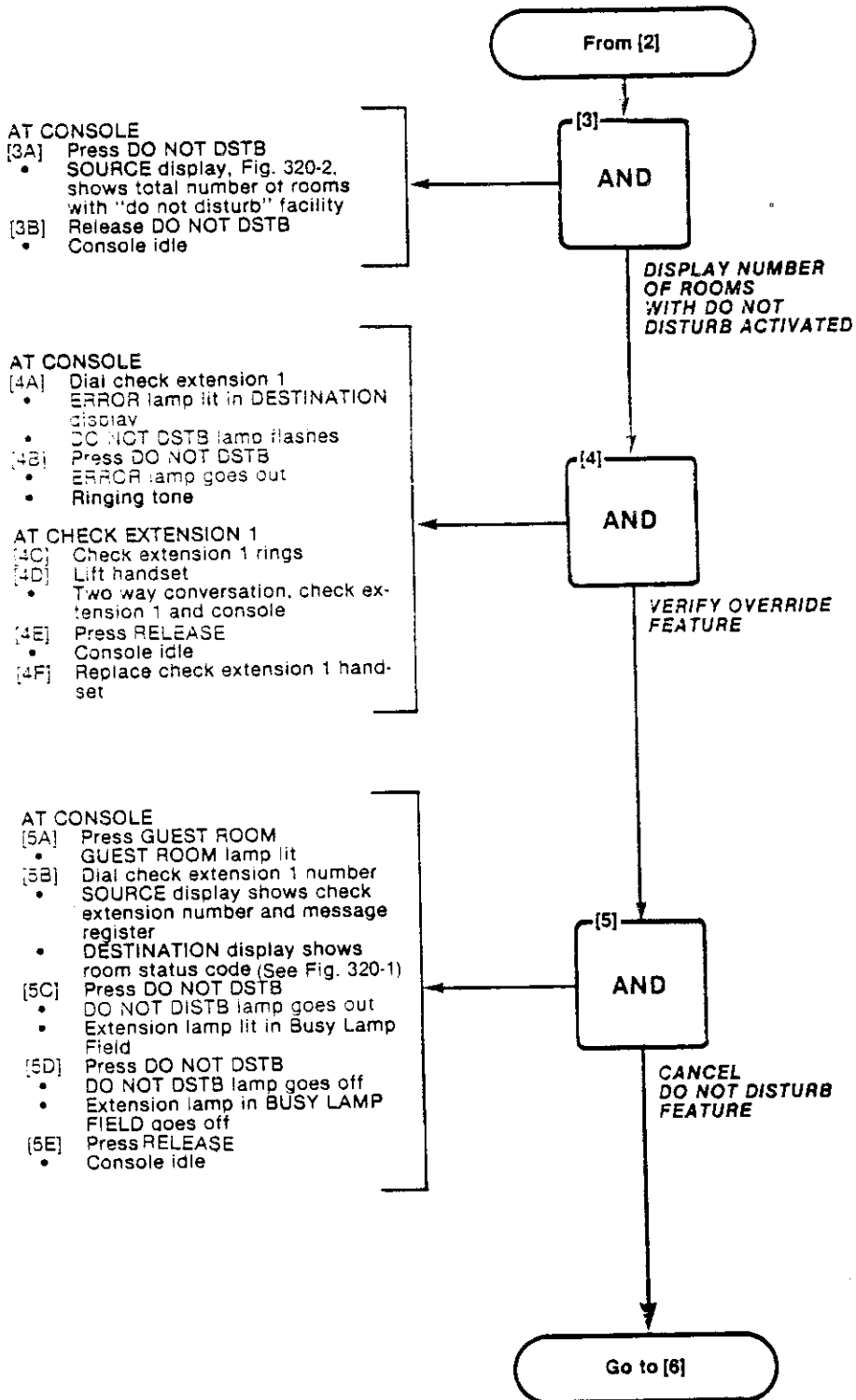
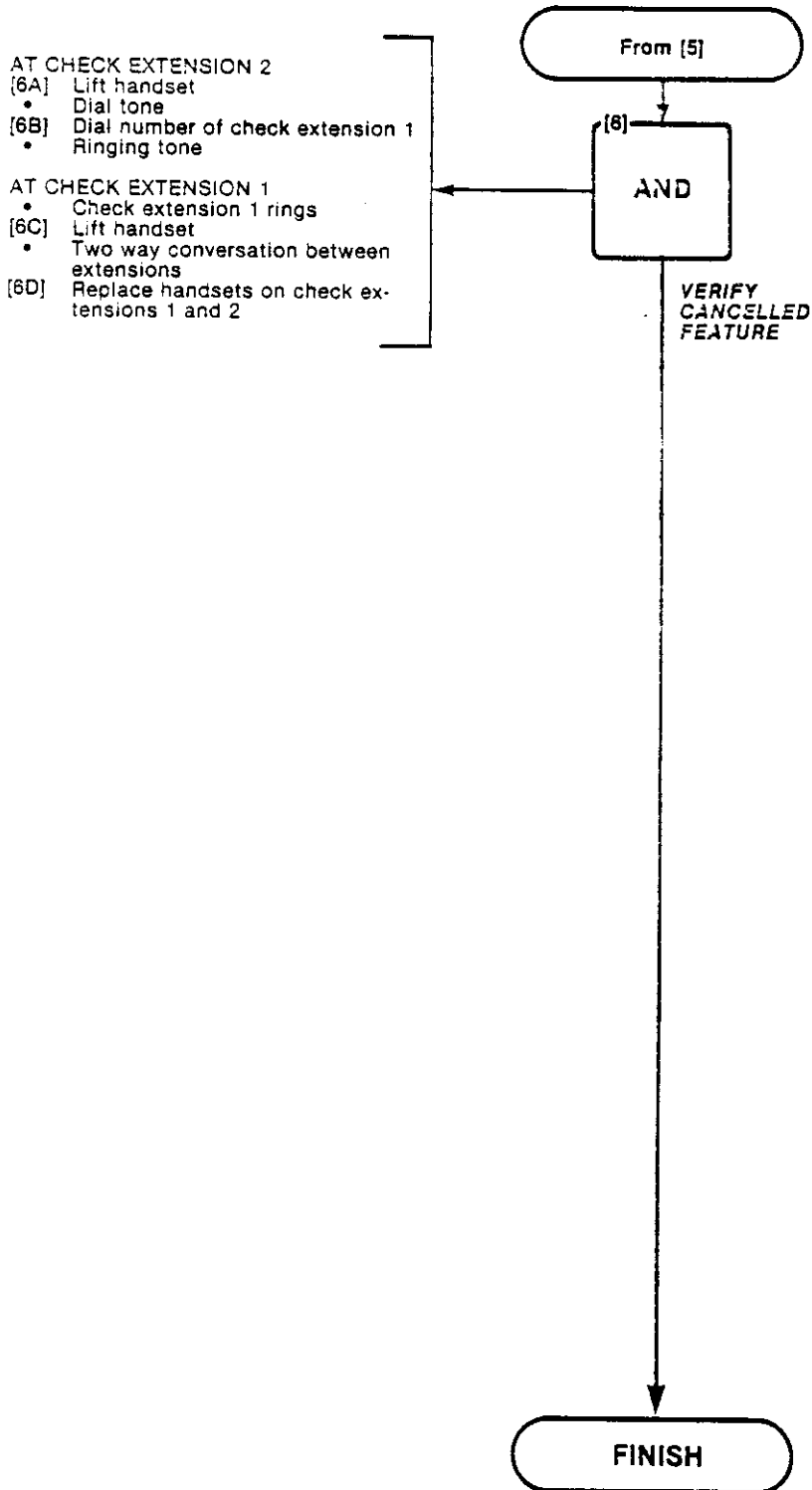


Fig. 320-2

ATTENDANT DO NOT DISTURB (H/M)
MAP215-320
Issue 2, February 1982
Sheet 3 of 3







MESSAGE REGISTRATION (H/M)
MAP215-321
Issue 1, August 1981
Sheet 1 of 1

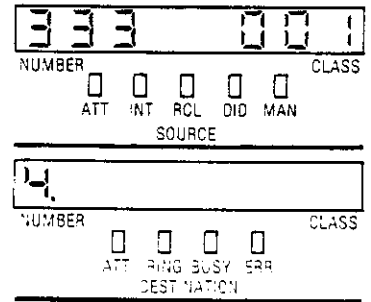
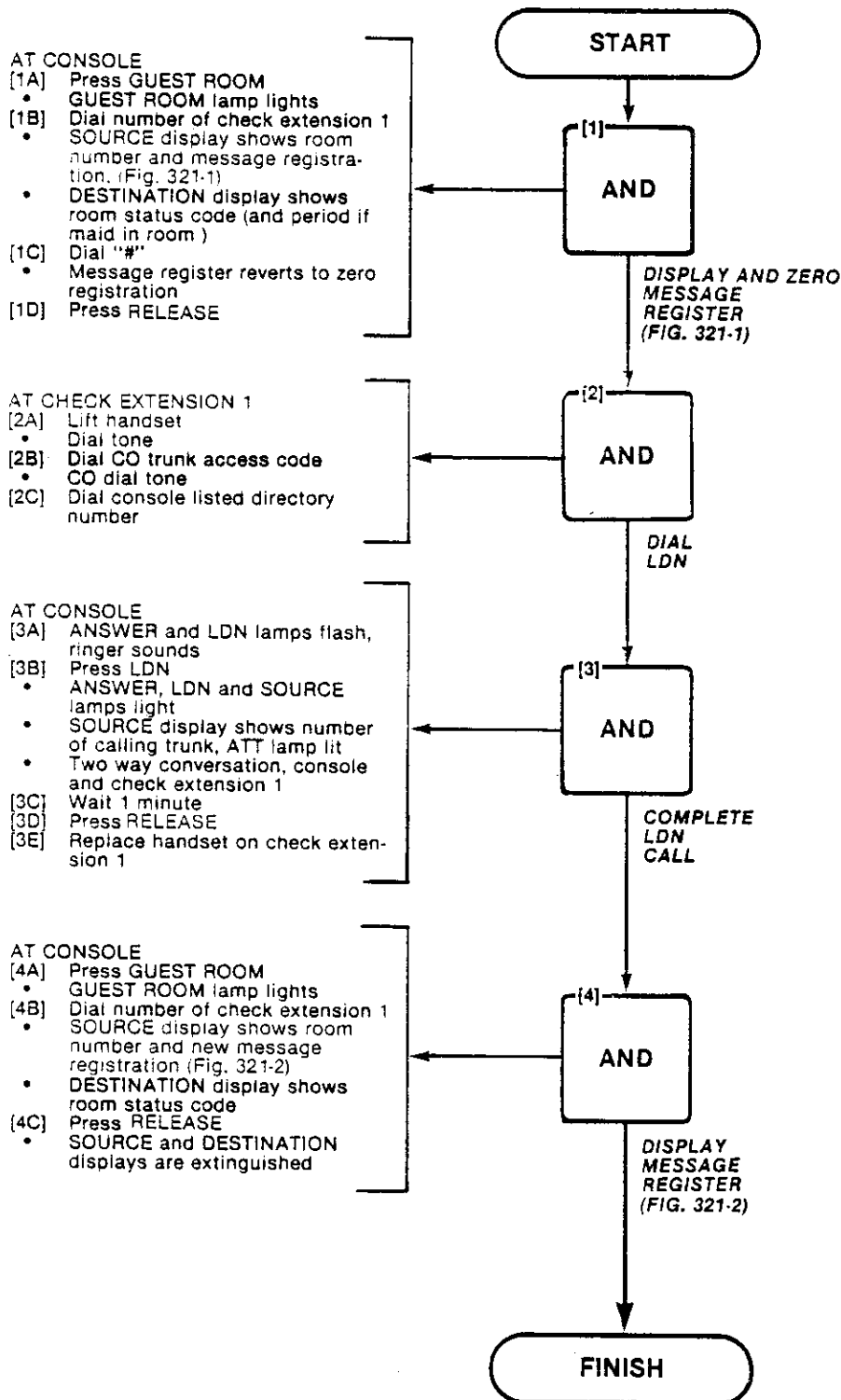


Fig. 321-1

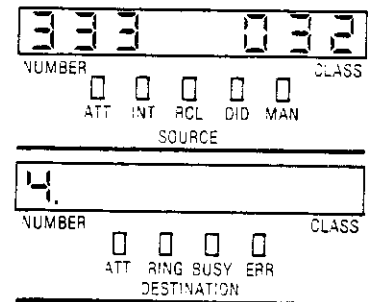


Fig. 321-2



CONTROLLED OUTGOING CALL RESTRICTION (H/M)
MAP215-322
Issue 2, February 1982
Sheet 1 of 2

Note: This MAP applies when console has ROOM RESTR. If ROOM STATUS see MAP215-323.

- AT CONSOLE
- [1A] Press GUEST ROOM
    - GUEST ROOM lamp lit
  - [1B] Dial check extension 1
    - SOURCE display shows number and message register count
    - DESTINATION display shows room status code (and period if maid in room) (See Fig. 322-1 and Table 322-1)

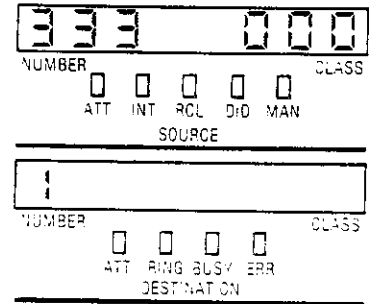


Fig. 322-1

- AT CONSOLE
- [3A] Dial digit 1
    - SOURCE display shows room number and message registration
    - DESTINATION display changes to read digit "1" for room status (Fig. 322-1)
  - [3B] Press ROOM RESTR
    - ROOM RESTR lamp lit
  - [3C] Press RELEASE
    - SOURCE and DESTINATION displays are cleared
    - ROOM RESTR lamp cleared

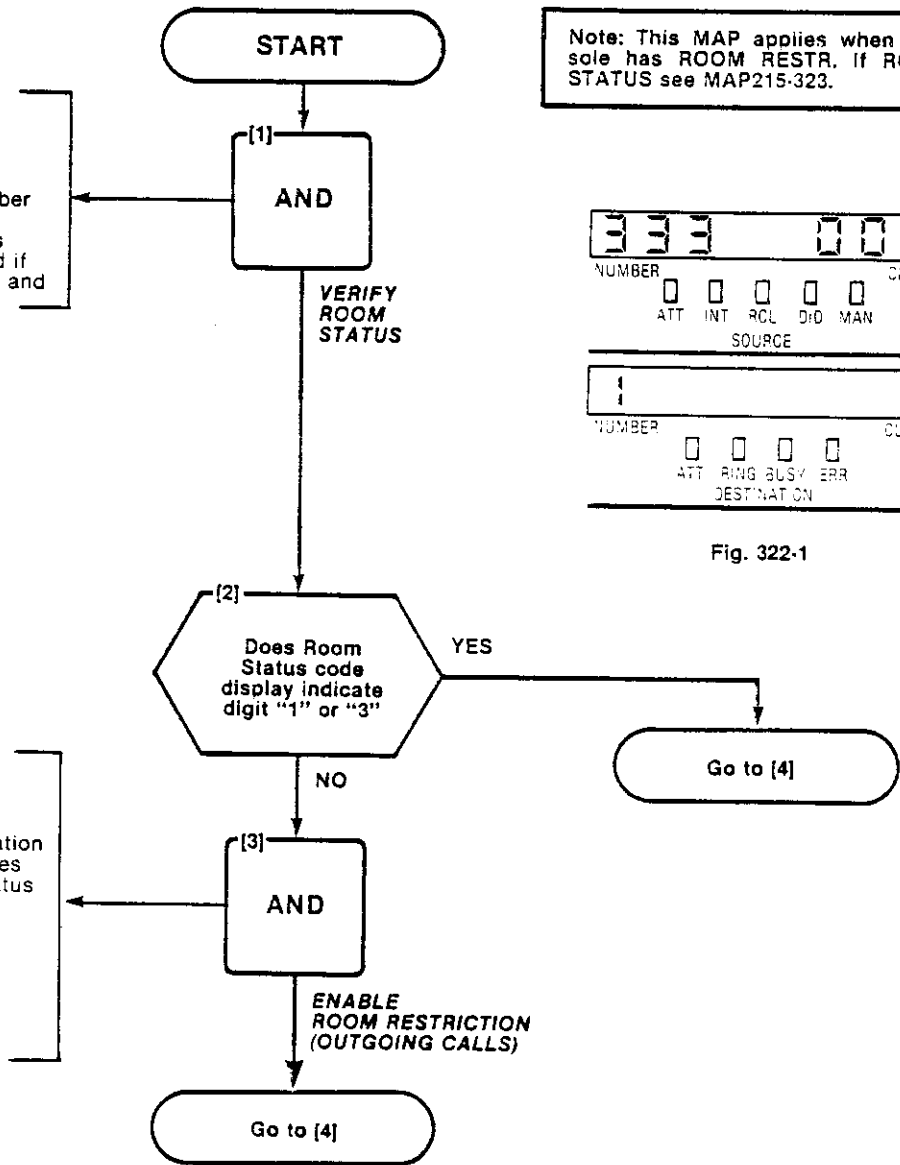
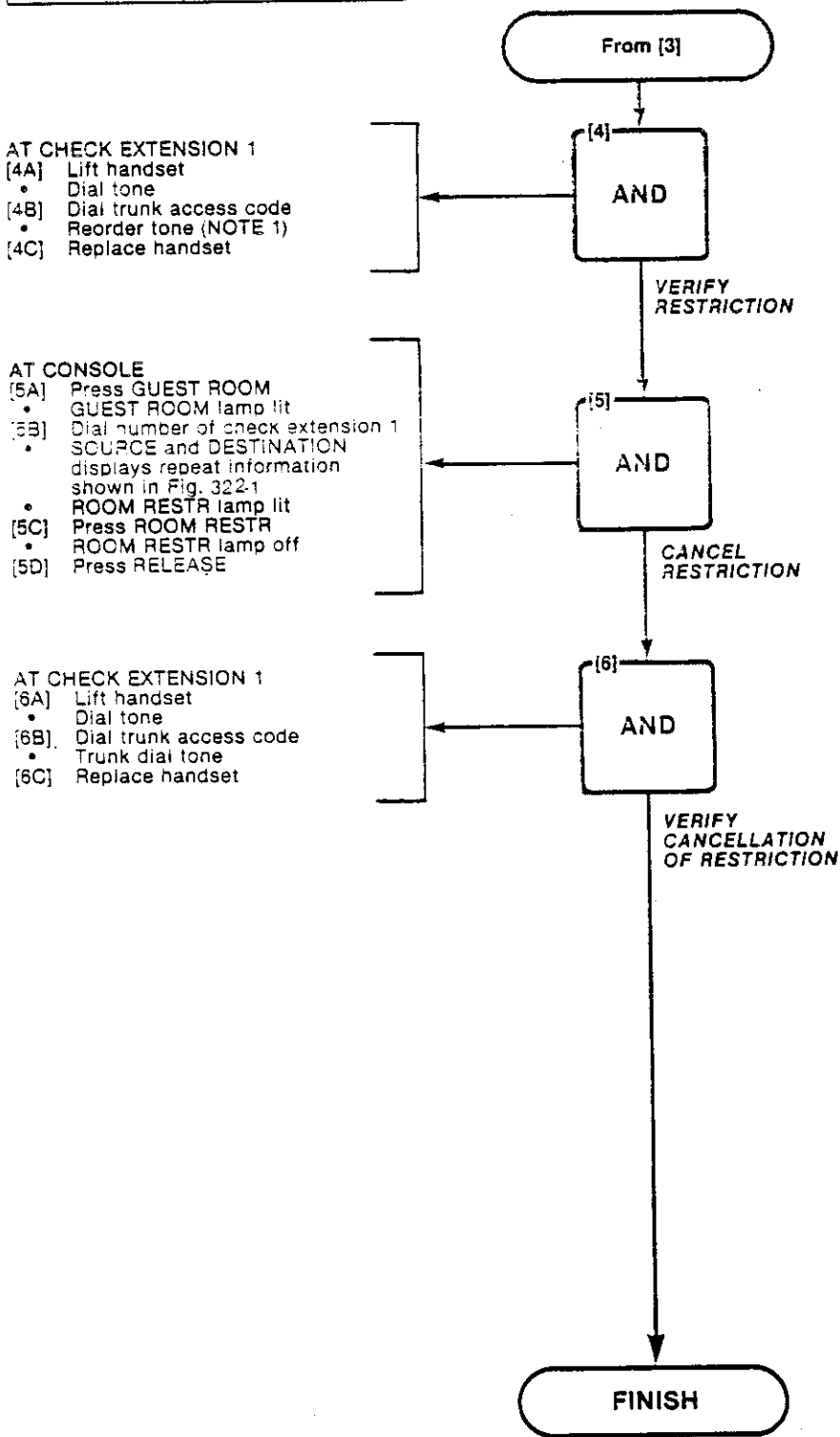


TABLE 322-1 ROOM STATUS CODES

CODE	STATUS
1	Room is vacant and ready
2	Room is occupied and clean
3	Room is vacant but requires cleaning
4	Room is occupied but requires cleaning

CONTROLLED OUTGOING CALL RESTRICTION (H/M)
MAP215-322
Issue 2, February 1982
Sheet 2 of 2



**Note 1:** Extension will receive intercept to attendant in Step [4B] when console is in "Day" service if System Option 116 is enabled.

ROOM STATUS (H/M)
MAP215-323
Issue 2, February 1982
Sheet 1 of 4

**NOTES**

(1) The single-digit codes in the following procedures have meanings shown in Tables 323-1 and 323-2

(2) Maid codes are dialed from room only, after the "Maid Access" code has been dialed (Table 323-2)

TABLE 323-1  
ROOM STATUS CODES

STATUS CODE	STATUS
1	Room vacant and ready
2	Room occupied and clean
3	Room vacant, requires cleaning
4	Room occupied, requires cleaning

TABLE 323-2  
MAID-DIALED CODES

MAID CODE	INDICATION (NOTE 2)
1	Maid in room, requires cleaning
2	Maid left room, status unchanged
3	Maid left room, room ready

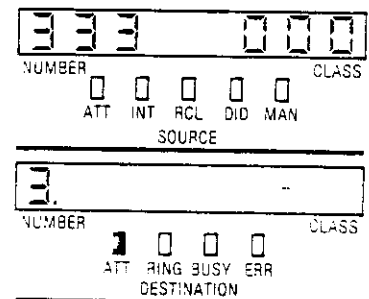
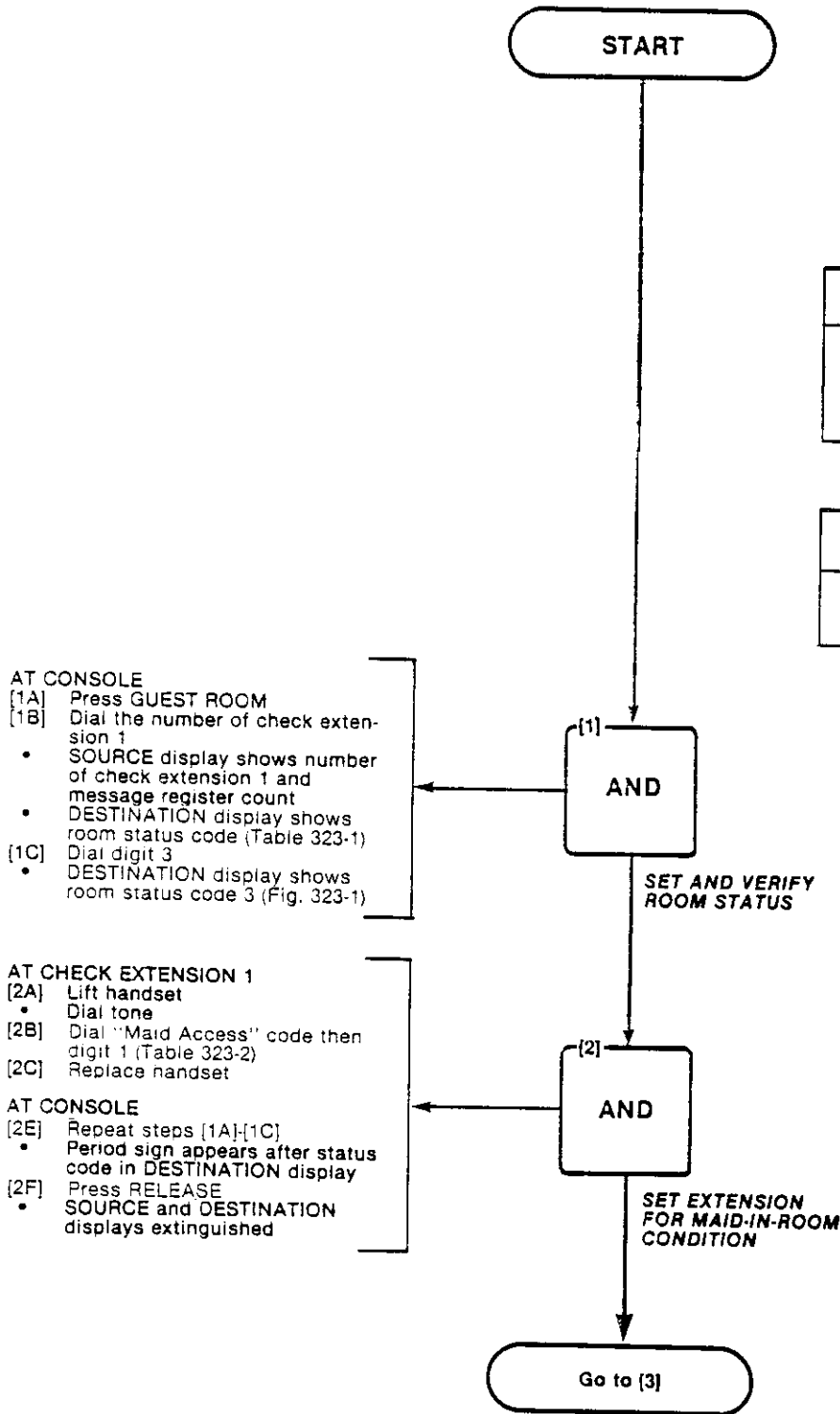


Fig. 323-1

SECTION MITL9105/9110-097-215-NA

ROOM STATUS (H/M)
MAP215-323
Issue 2, February 1982
Sheet 2 of 4

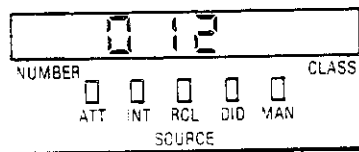
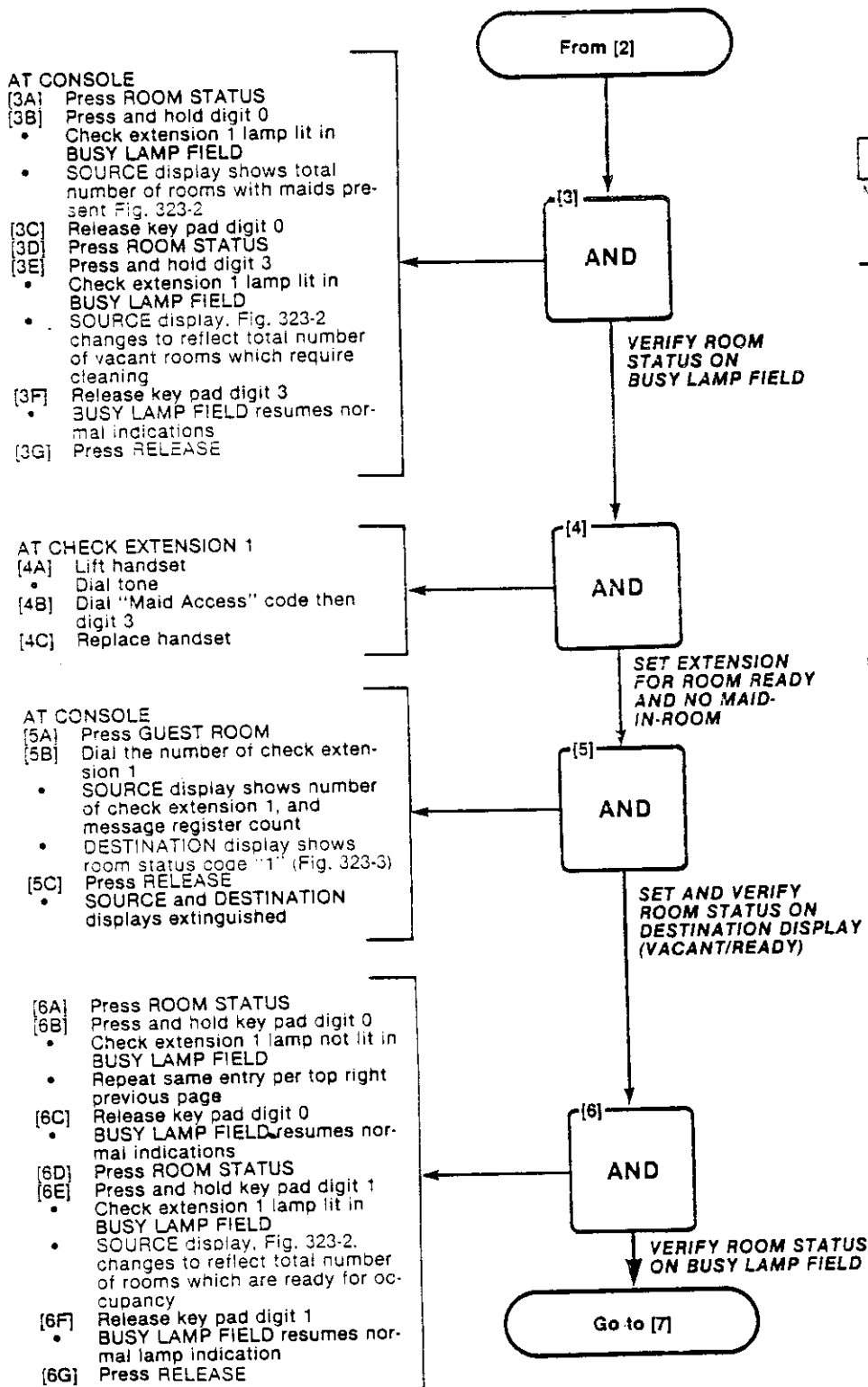


Fig. 323-2

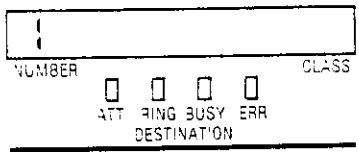


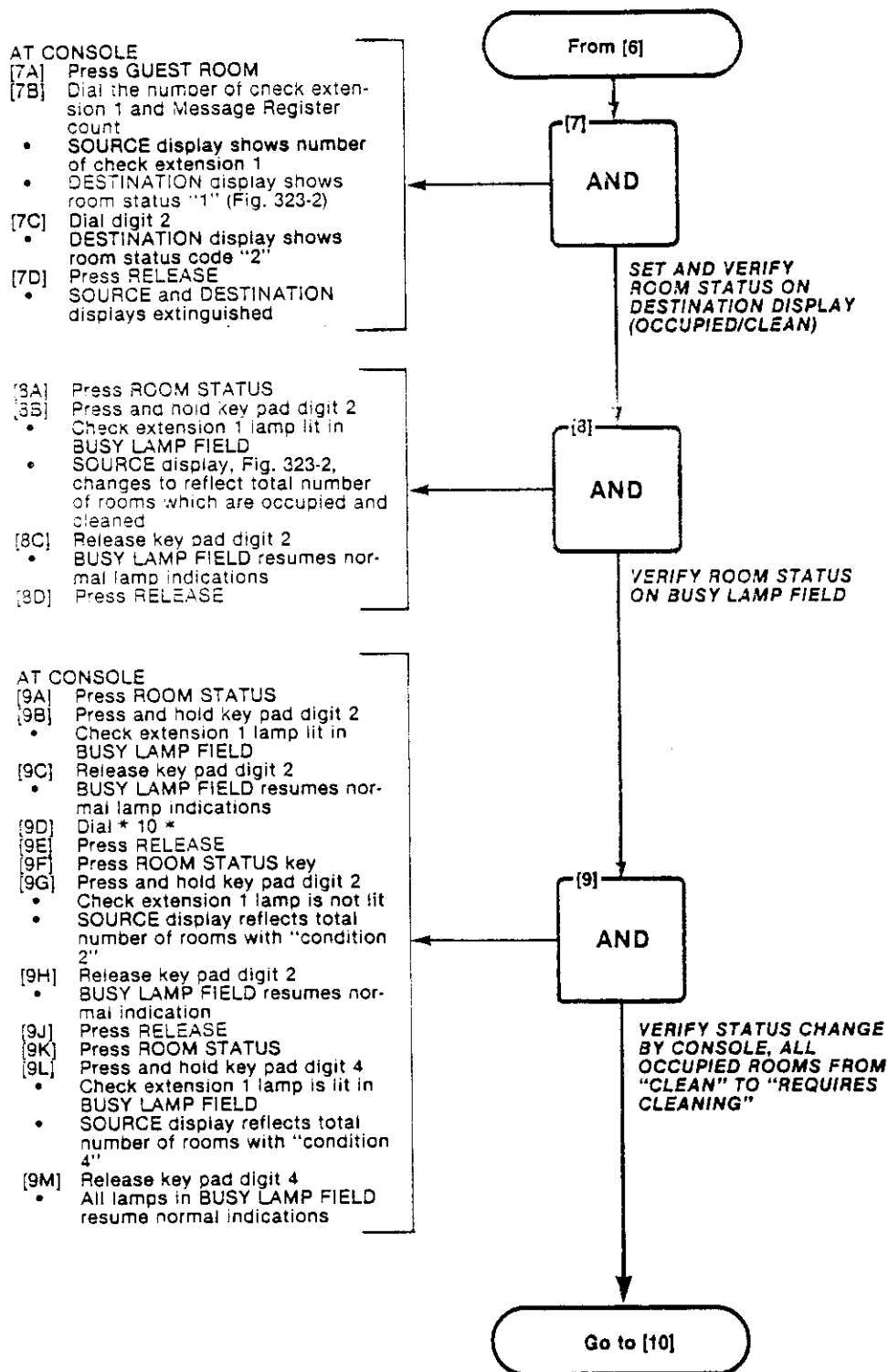
Fig. 323-3

ROOM STATUS (H/M)

MAP215-323

Issue 2, February 1982

Sheet 3 of 4

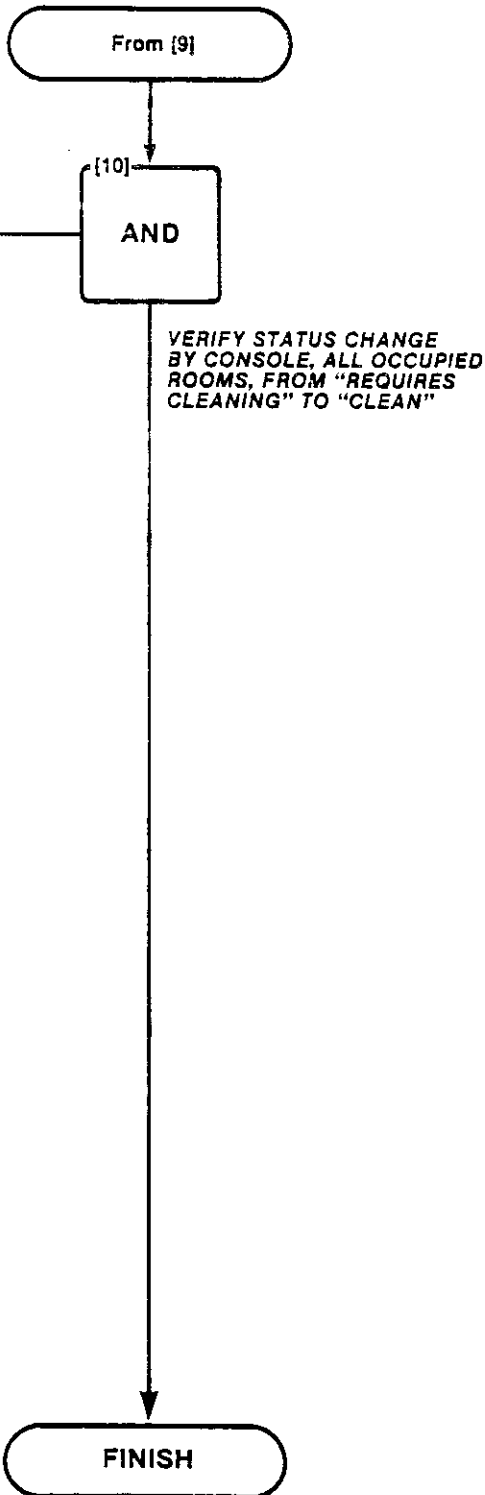


SECTION MITL9105/9110-097-215-NA

ROOM STATUS (H/M)
MAP215-323
Issue 2, February 1982
Sheet 4 of 4

AT CONSOLE

- [10A] Dial \* 10 #
- [10B] Press RELEASE
- [10C] Press ROOM STATUS
- [10D] Press and hold key pad digit 4
  - Check extension 1 lamp is not lit in BUSY LAMP FIELD
- [10E] Release key pad digit 4
- [10F] Press RELEASE
- [10G] Press ROOM STATUS
- [10H] Press and hold key pad digit 2
  - Check extension 1 lamp is lit in BUSY LAMP FIELD
  - SOURCE display reflects total number of room with "condition 2"
- [10J] Release key pad digit 2
  - All lamps in BUSY LAMP FIELD resume normal indications
- [10K] Press RELEASE





AUTOMATIC WAKE-UP
MAP215-324
Issue 2, February 1982
Sheet 1 of 2

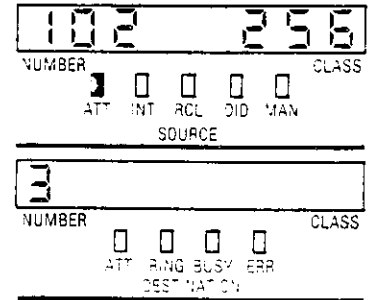
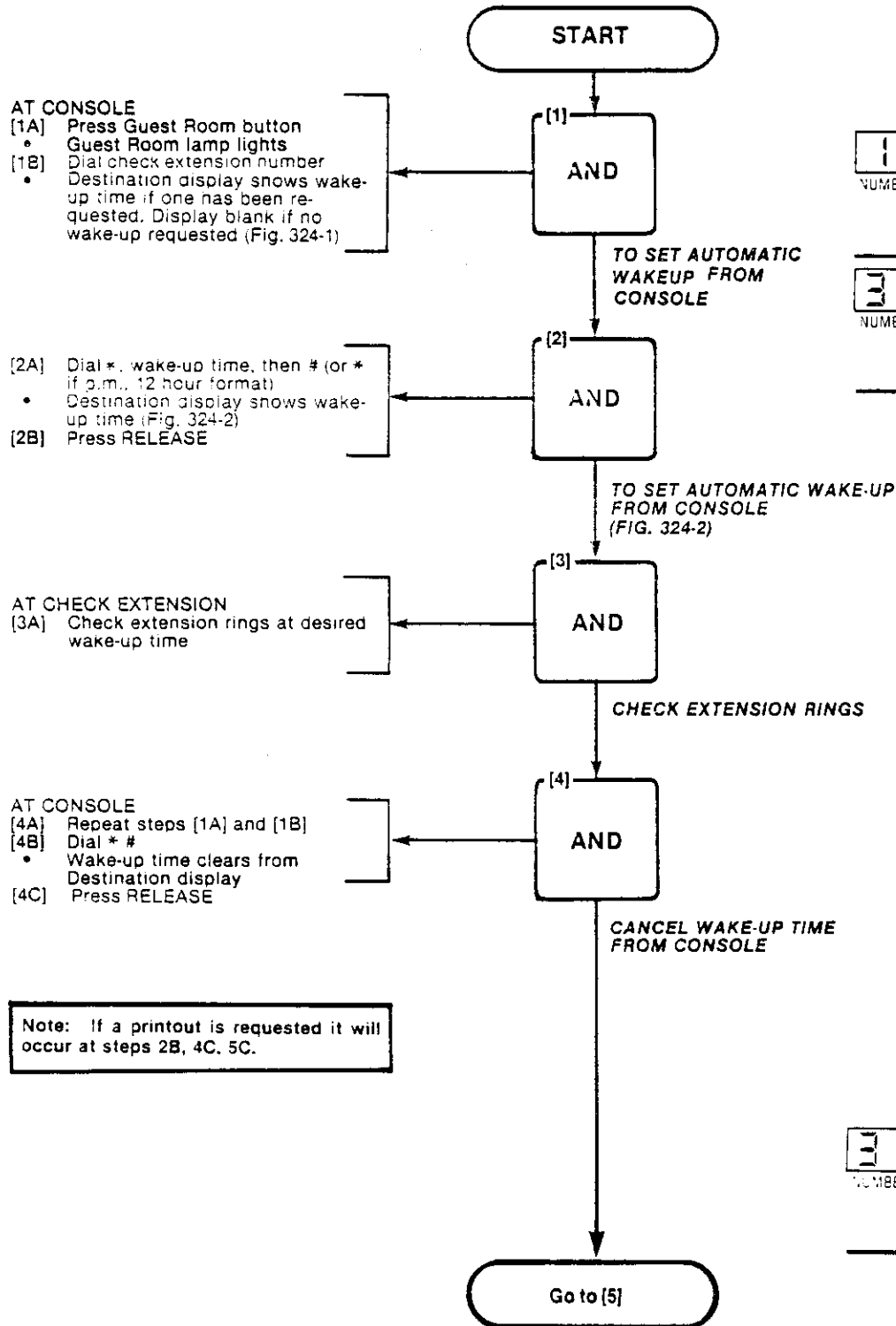


Fig. 324-1

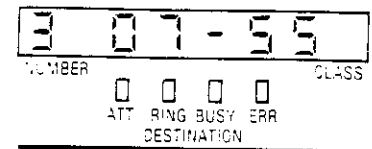


Fig. 324-2

AUTOMATIC WAKE-UP
MAP215-324
Issue 2, February 1982
Sheet 2 of 2

- [5A] Repeat steps 1 and 2
- [5B] Allow check extension to ring at all 3.5 minute intervals unanswered
- [5C] At the end of the third attempt console minor alarm LED will light and the console ringer will sound
- [5D] Press the ALARM RESET display should be similar to Fig. 324-3

- [6A] Press \* 8 #
- [6B] Press RELEASE

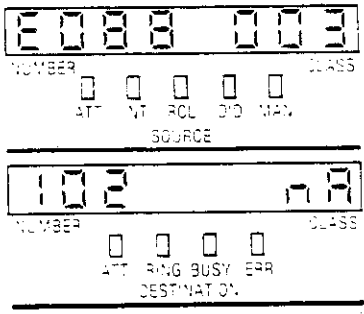
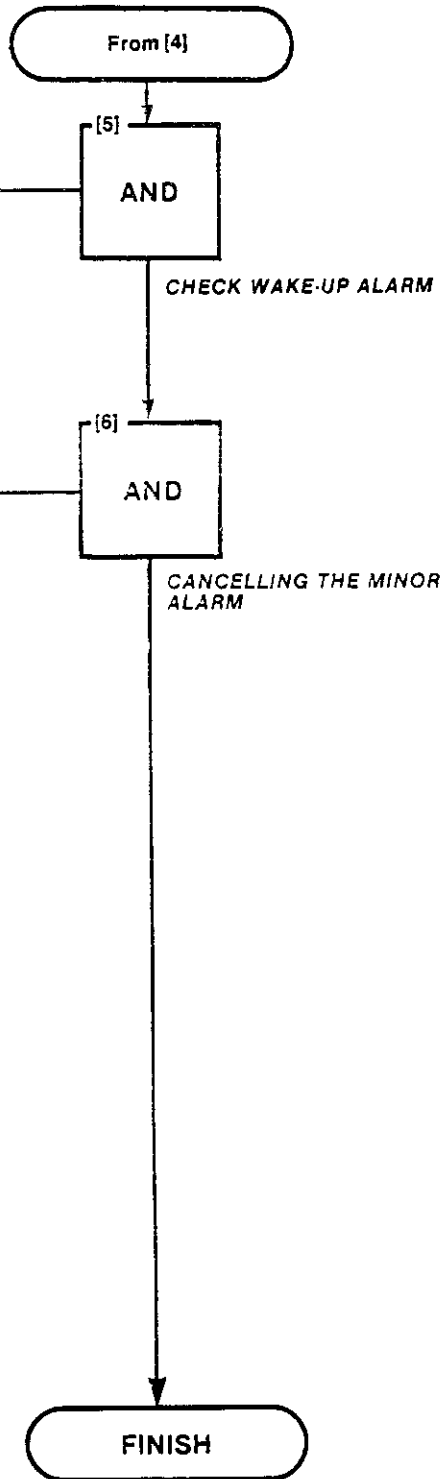


Fig. 324-3

MESSAGE WAITING (H/M)
MAP215-325
Issue 2, February 1982
Sheet 1 of 1

**WARNING: Pressing MSGE WAIT key when console is active with an extension may activate or remove the feature at the extension.**

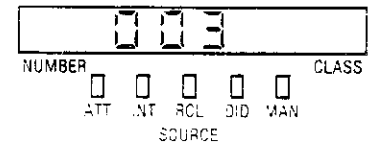
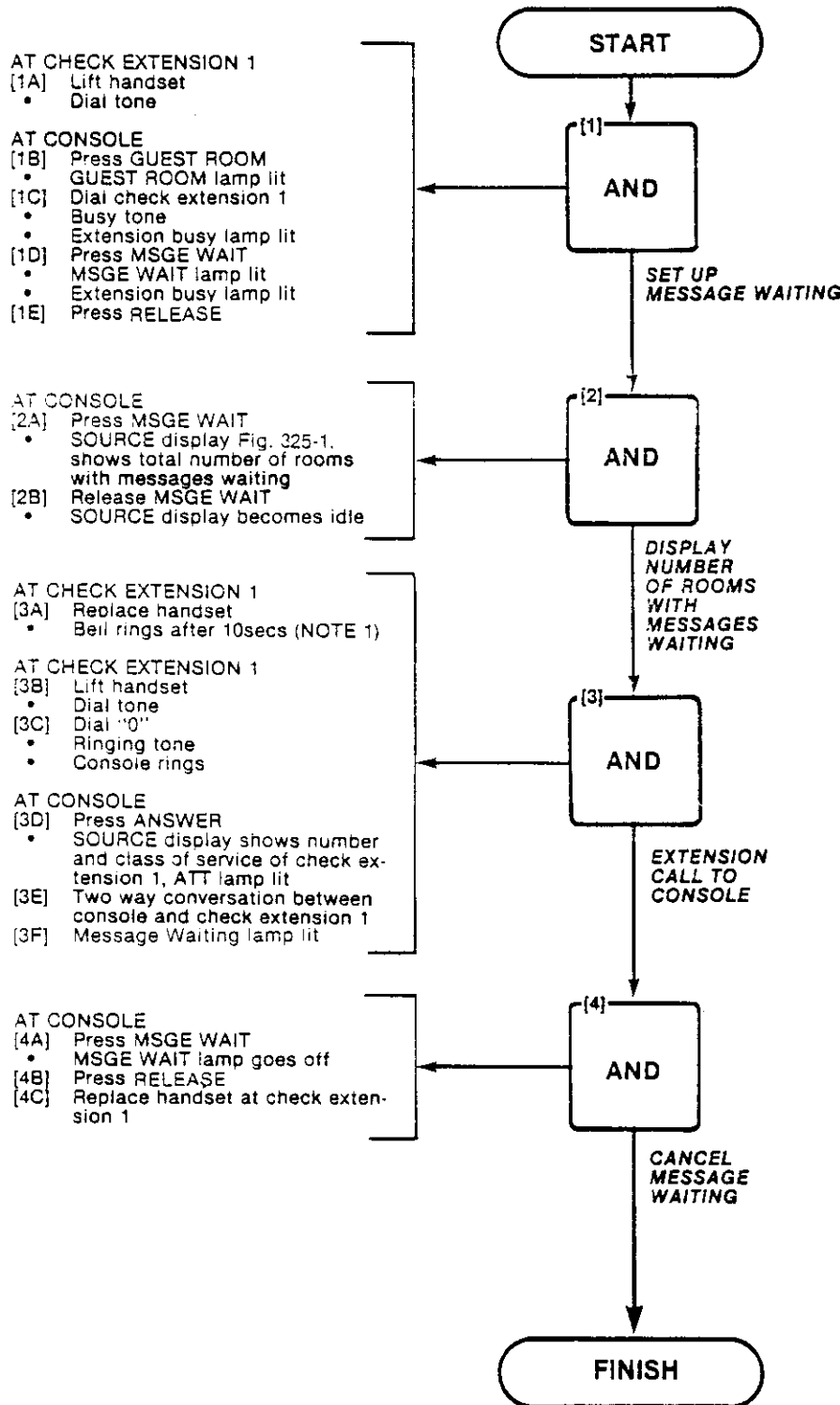
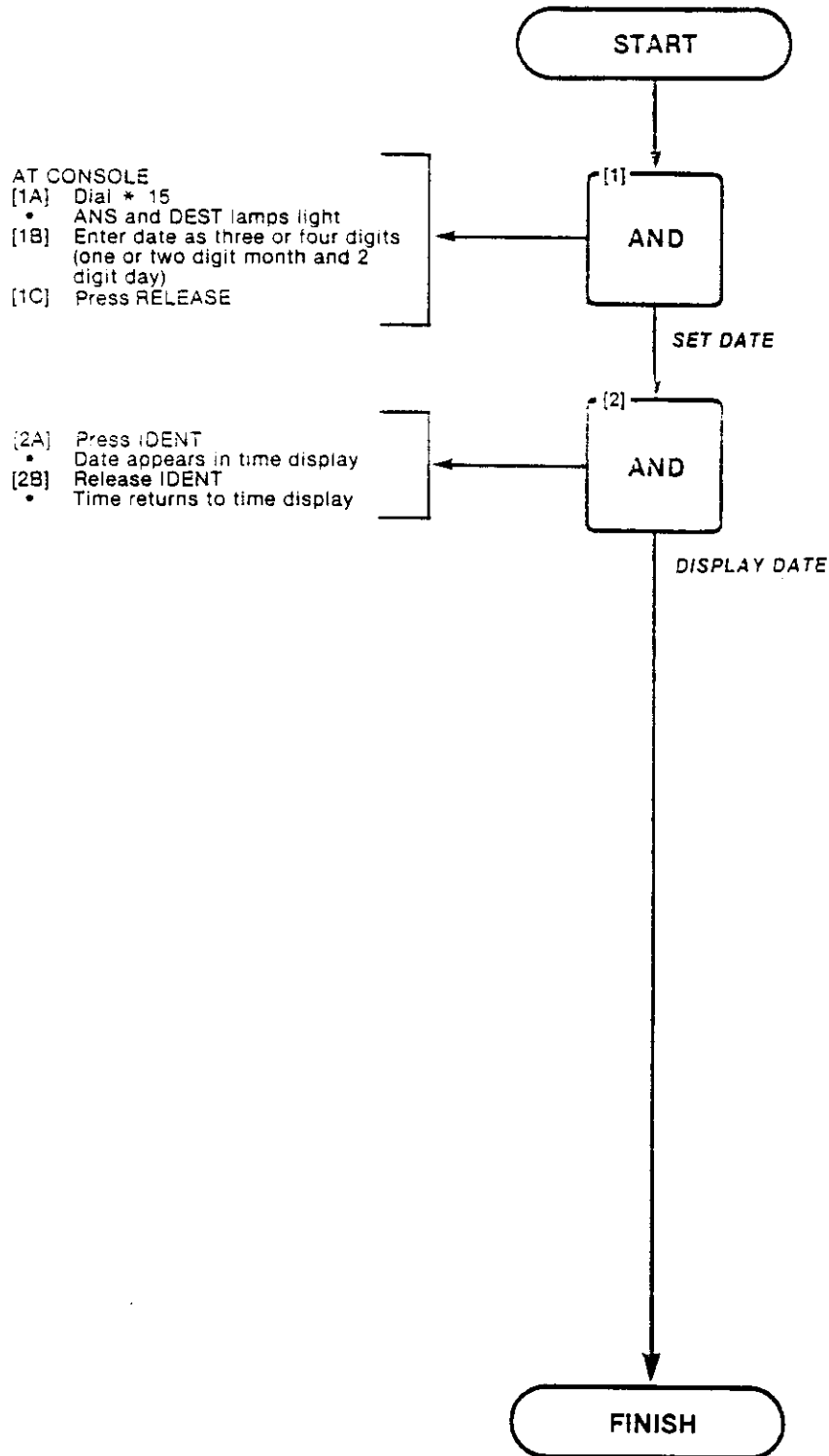


Fig. 325-1

**Note 1:** The lamp flash facility to flash telephone fitted with lamp is available on PABX line cards bearing part number 9110-010. Either option 137 for lamp flash or option 138 for bell ring may be programmed, but not both.

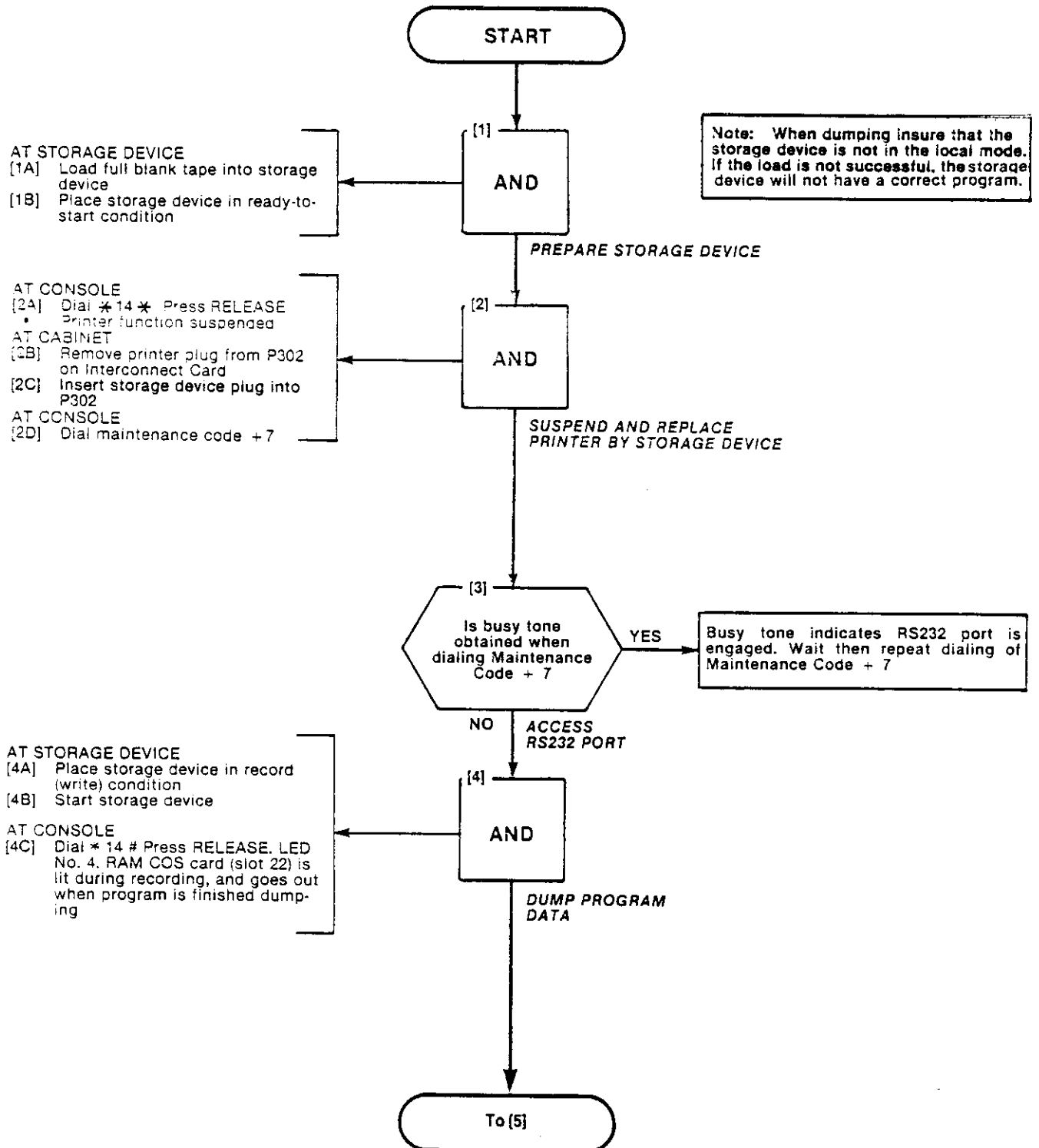


CONSOLE DATE DISPLAY AND DATE UTILITY
MAP215-326
Issue 2, February 1982
Sheet 1 of 1

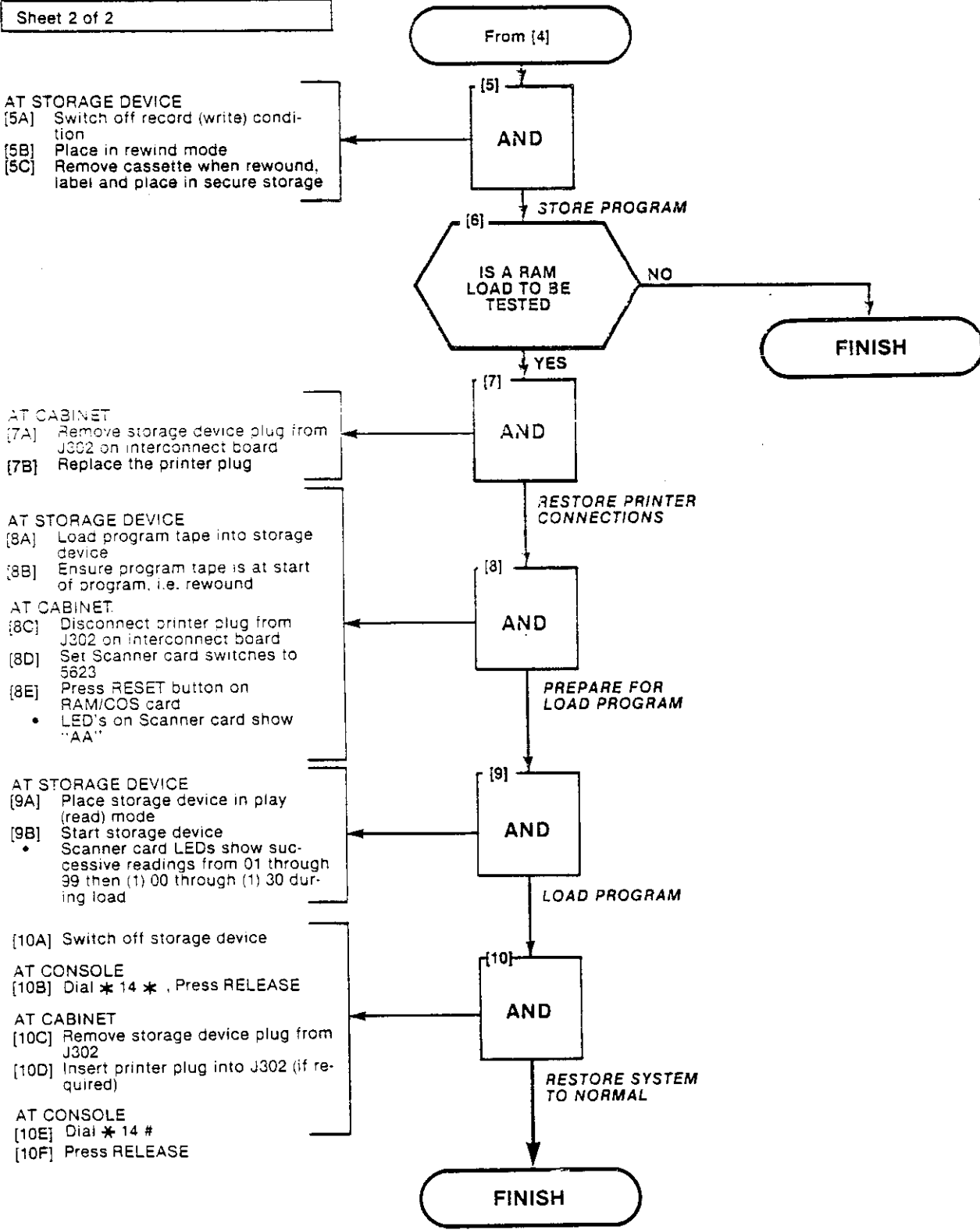




CUSTOMER PROGRAM DUMP/LOAD
MAP215-327
Issue 2, February 1982
Sheet 1 of 2



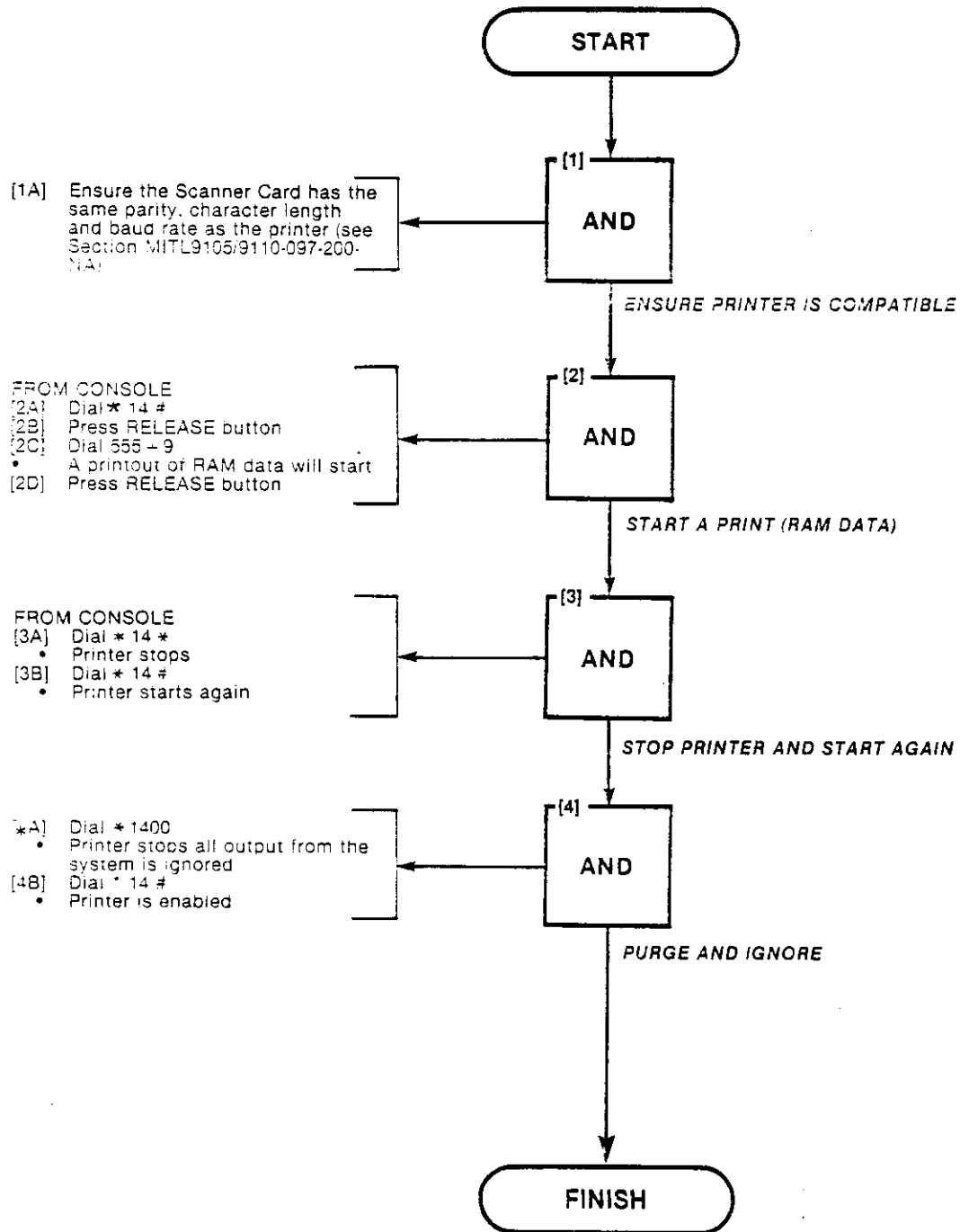
CUSTOMER PROGRAM DUMP/LOAD
MAP215-327
Issue 2, February 1982
Sheet 2 of 2





CONTROLLING THE PRINTER
MAP215-328
Issue 2, February 1982
Sheet 1 of 1

**TOOLS REQUIRED:**  
 Printer, RS232 compatible, 88 characters per line and 300 or 1200 baud print rate





ROOM AUDIT
MAP215-329
Issue 2, February 1982
Sheet 1 of 1

**Note:** Ensure Printer is not in local mode.

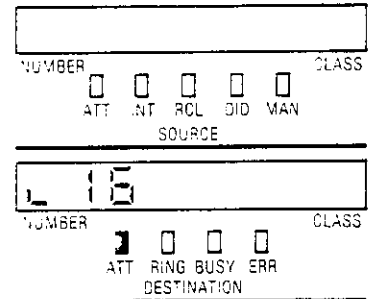
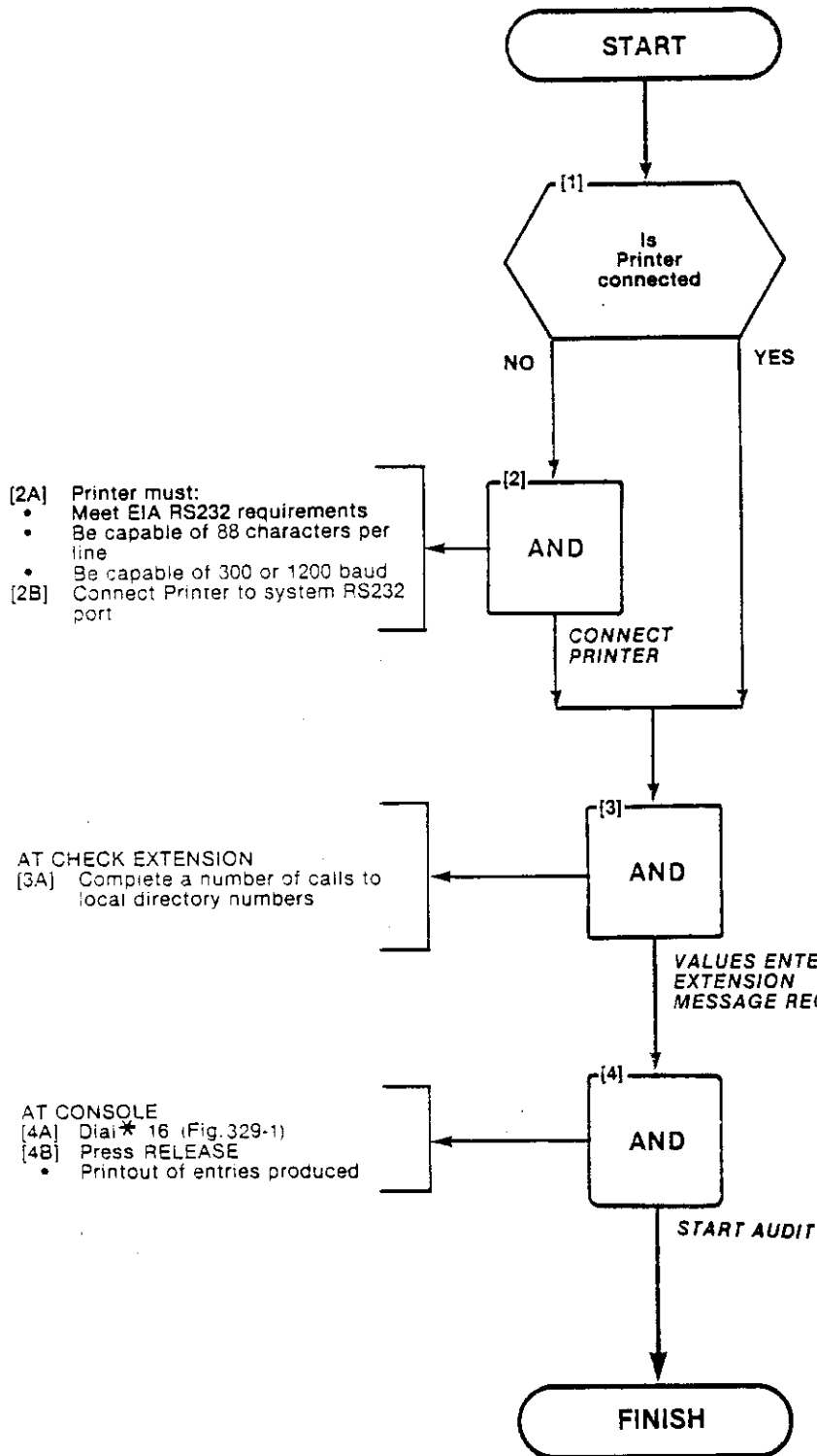


Fig. 329-1



SYSTEM IDENTIFIER
MAP215-330
Issue 2, February 1982
Sheet 1 of 1

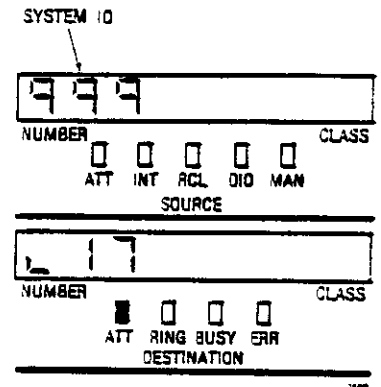
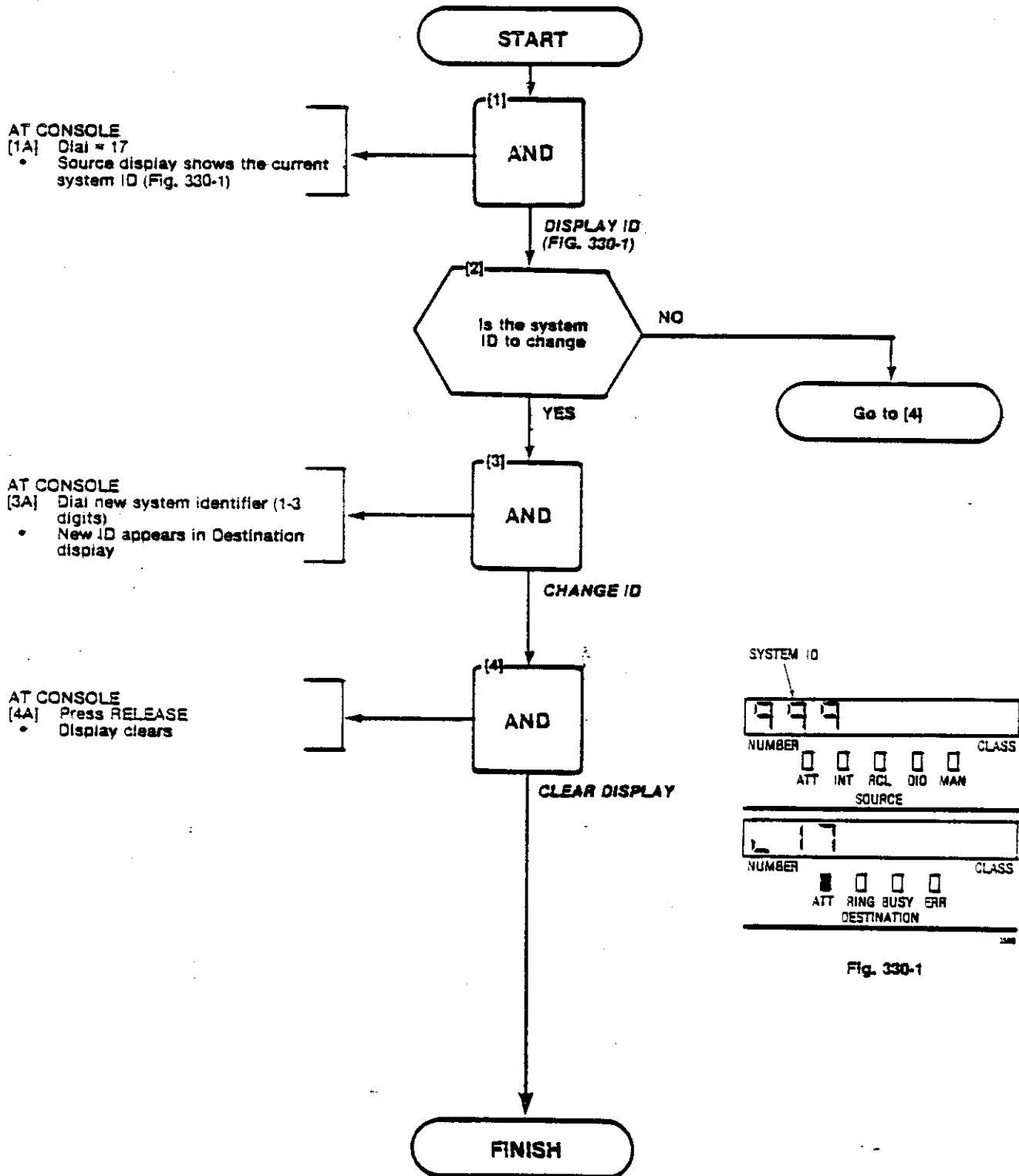


Fig. 330-1



COMMON USE SPEED CALL
MAP215-331
Issue 2, February 1982
Sheet 1 of 1

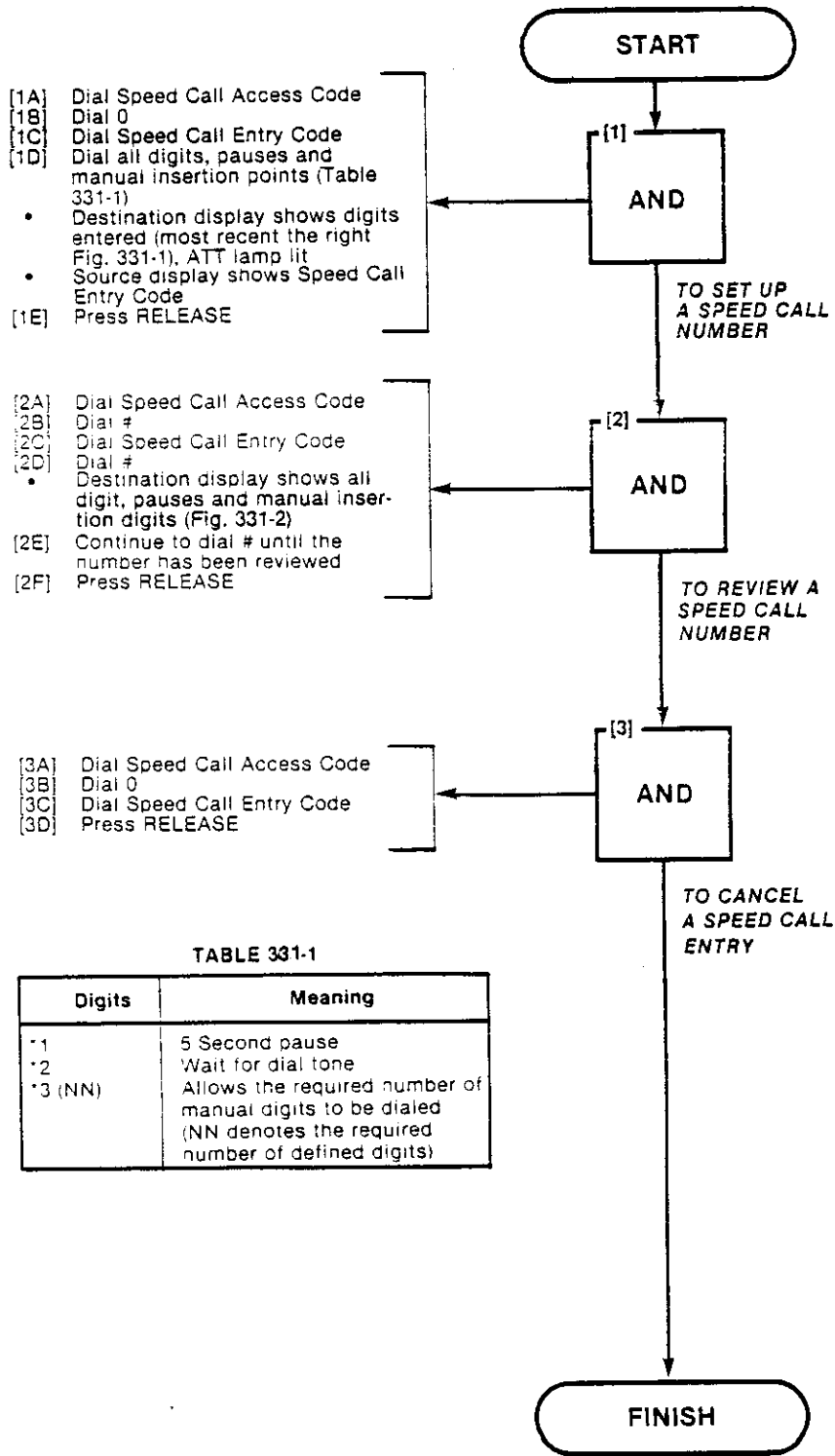


TABLE 331-1

Digits	Meaning
*1	5 Second pause
*2	Wait for dial tone
*3 (NN)	Allows the required number of manual digits to be dialed (NN denotes the required number of defined digits)

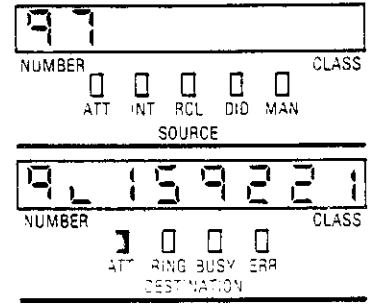


Fig. 331-1  
Setup Speed Call Number

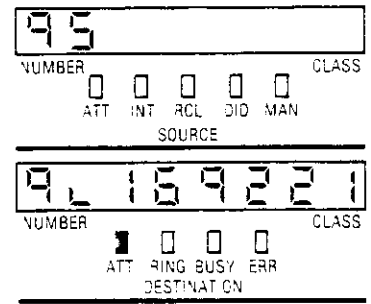
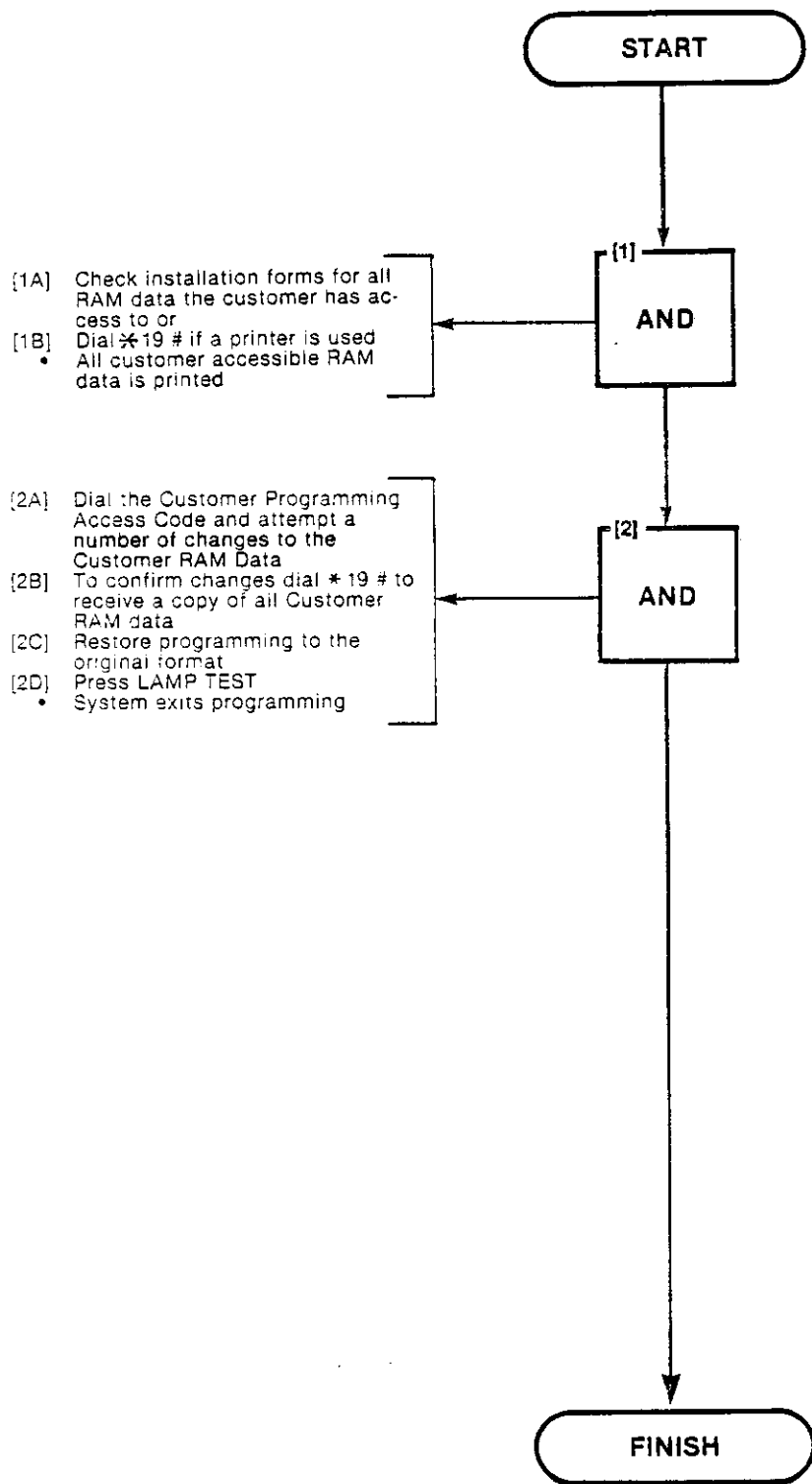


Fig. 331-2  
Review Speed Call Number





CUSTOMER PROGRAMMING
MAP215-332
Issue 1, August 1981
Sheet 1 of 1

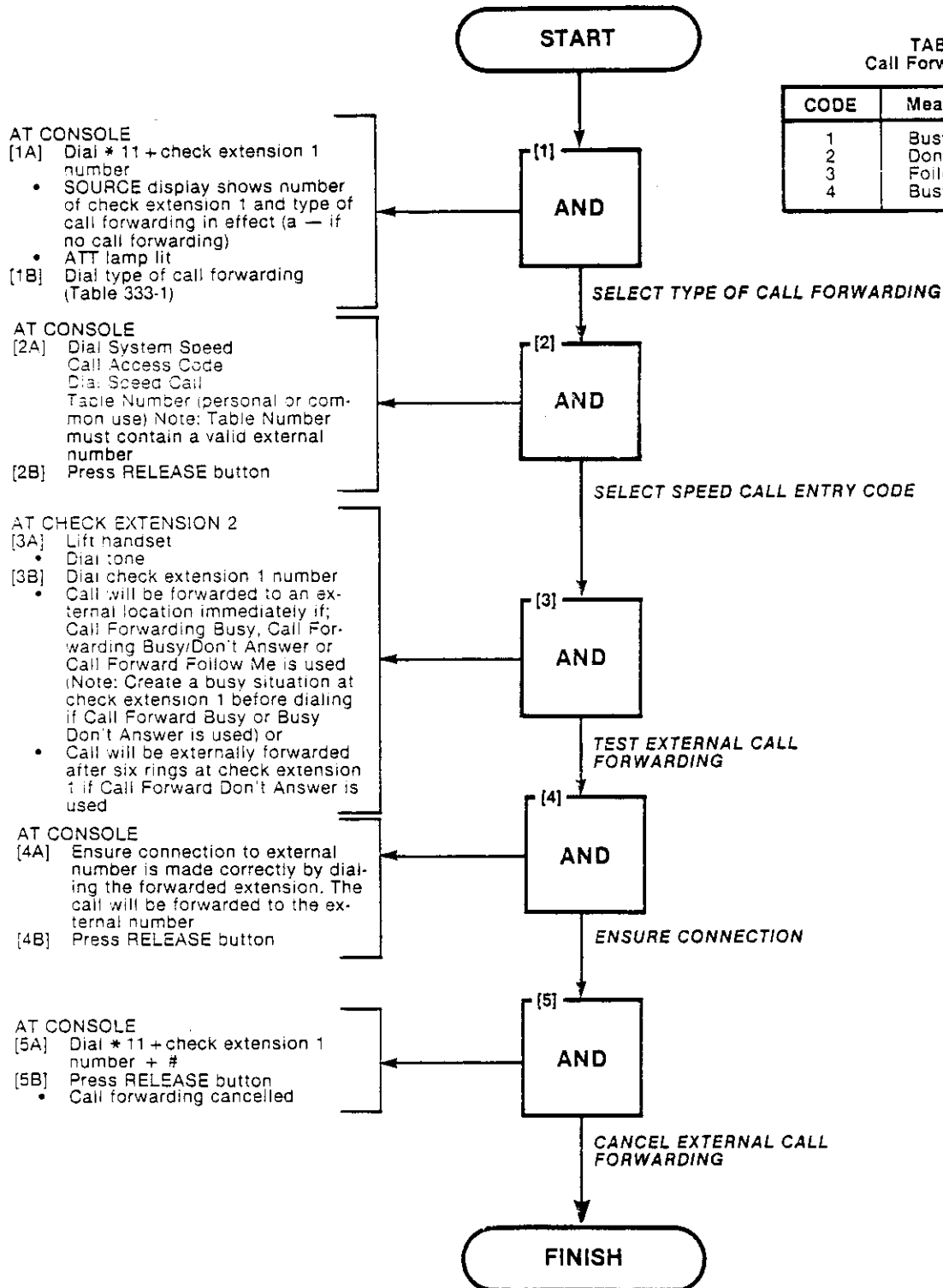




EXTERNAL CALL FORWARDING
MAP215-333
Issue 2, February 1982
Sheet 1 of 2

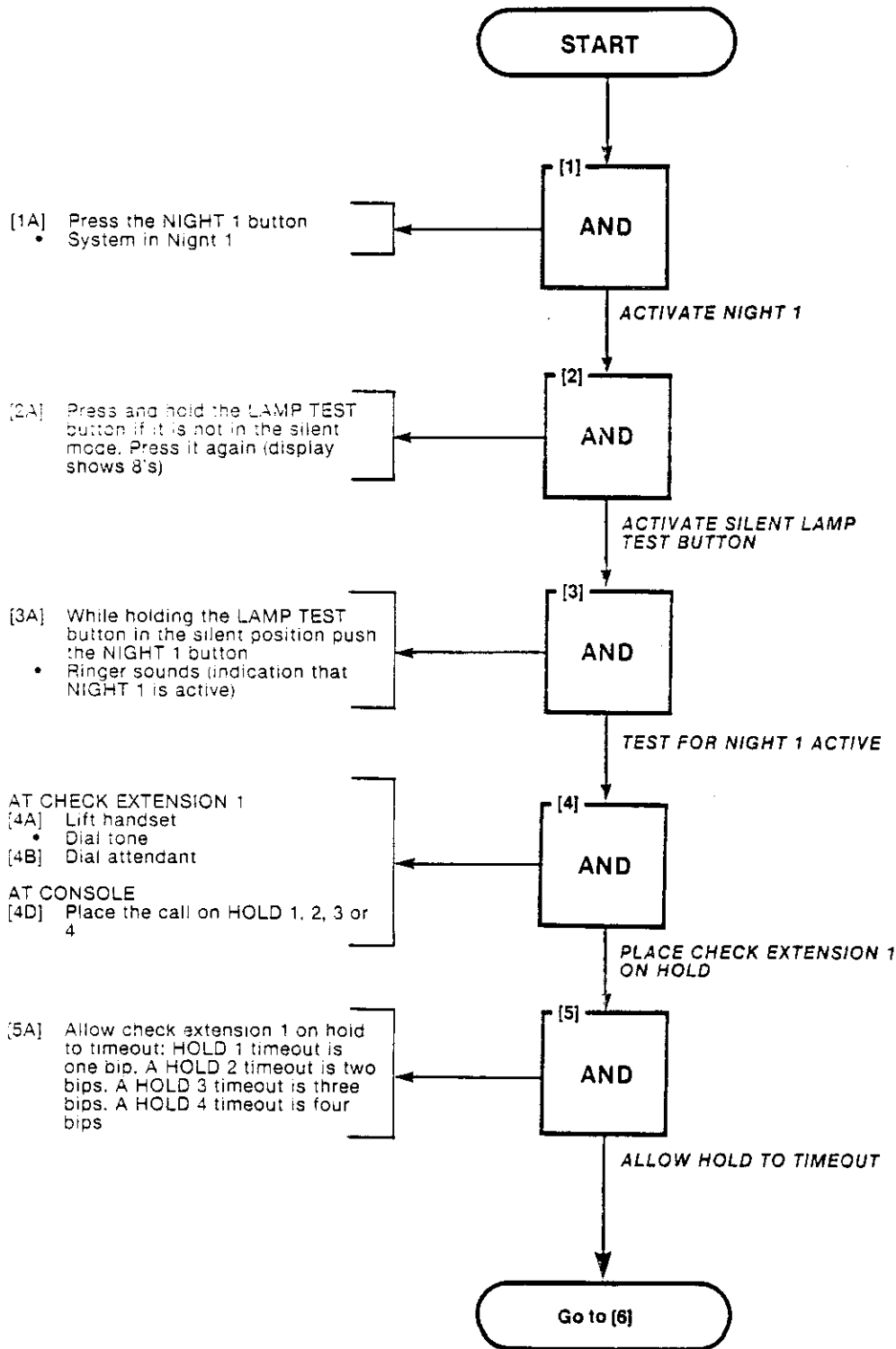
TABLE 333-1  
Call Forwarding Codes

CODE	Meaning
1	Busy
2	Don't Answer
3	Follow Me
4	Busy/Don't Answer





TEST AUDIBLE TONE INDICATORS
MAP215-334
Issue 2, February 1982
Sheet 1 of 2



TEST AUDIBLE TONE INDICATORS
MAP215-334
Issue 2, February 1982
Sheet 2 of 2

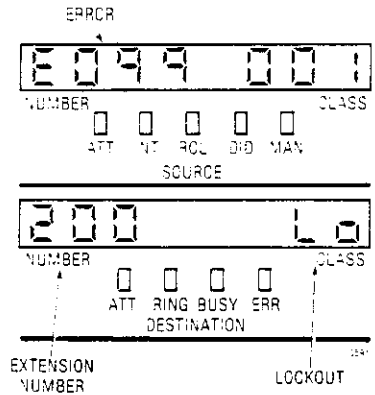
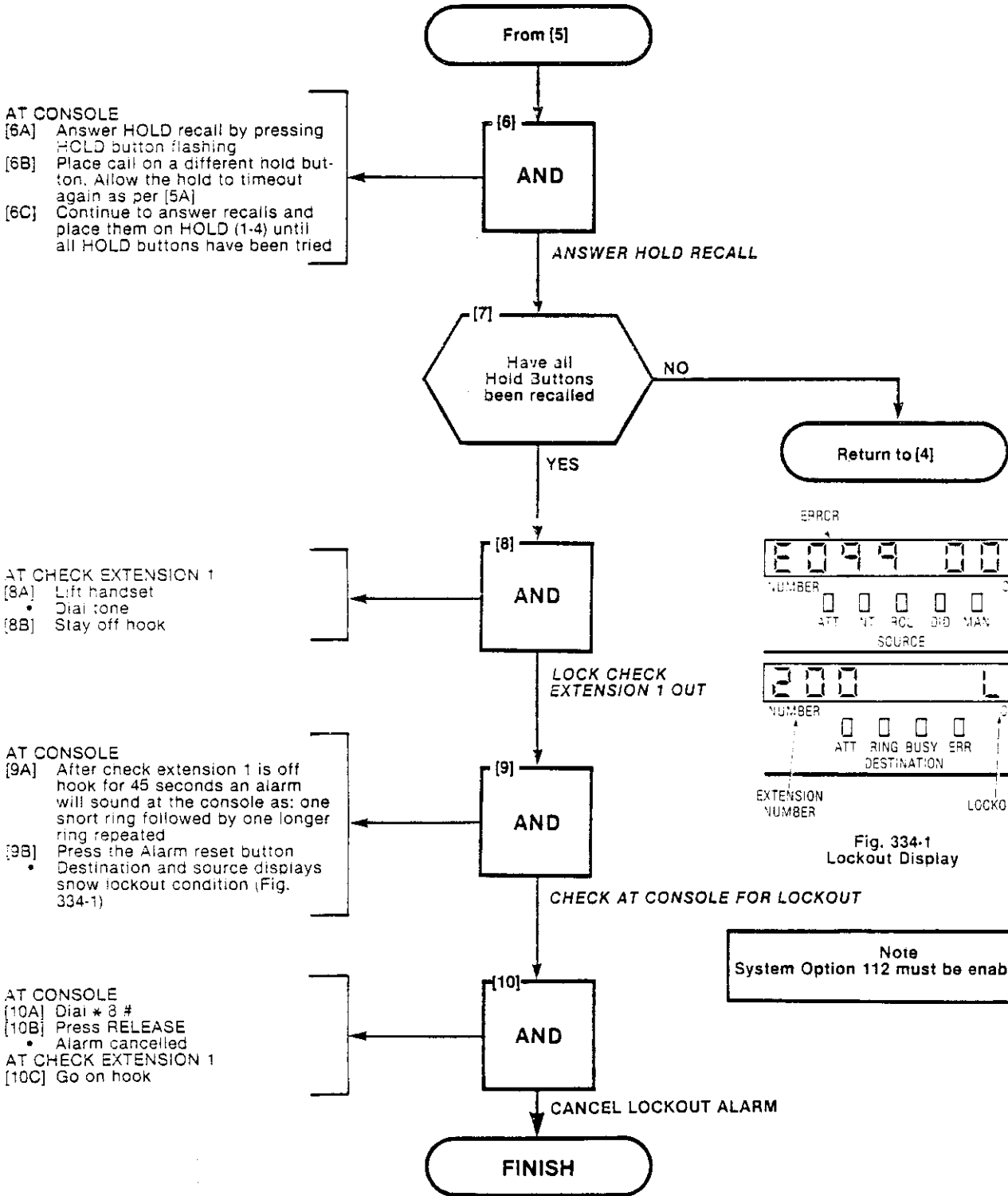


Fig. 334-1  
Lockout Display

**Note**  
System Option 112 must be enabled.

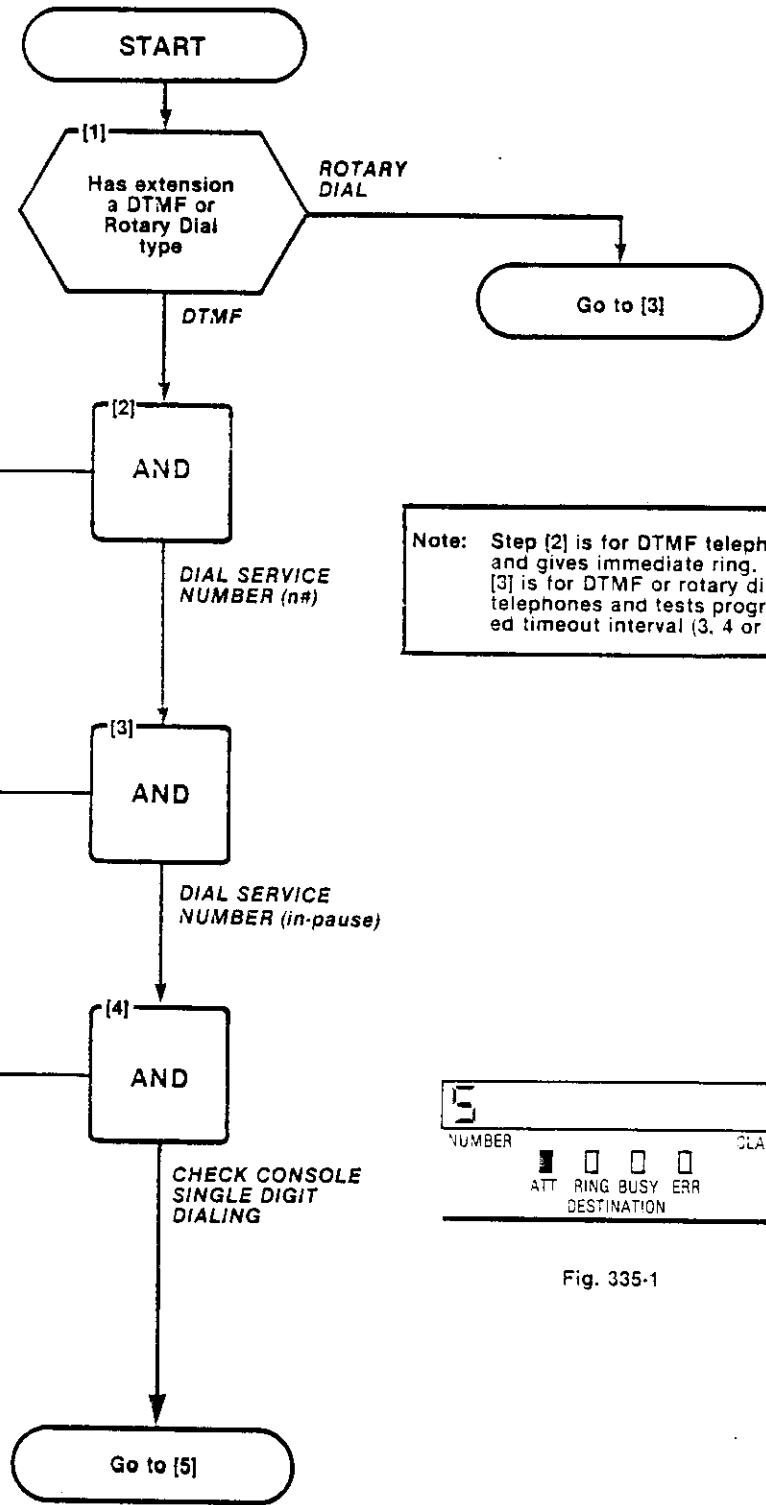
SINGLE DIGIT DIALING
MAP215-335
Issue 2, February 1982
Sheet 1 of 2

**Note:** To conduct the following system tests, check extension 1 must be programmed as a "SERVICE" extension with code "n" (a single digit code). Alternatively check extension 1 may be temporarily connected in parallel on the cross-connect field to an extension which has a "SERVICE" code, for the test duration.

- AT CHECK EXTENSION 2**
- [2A] Lift handset
    - Dial tone
  - [2B] Dial "n" (see above note) followed immediately by "#"
    - Ringing tone
    - Check extension 1 bell rings
  - [2C] Lift handset at check extension 1
    - Two way conversation, check extensions 1 and 2
  - [2D] Replace handsets on check extensions 1 and 2

- AT CHECK EXTENSION 2**
- [3A] Lift handset
    - Dial tone
  - [3B] Dial "n" (see note)
    - Ringing tone
    - Check extension 1 bell rings
  - [3C] Lift handset at check extension 1
    - Two way conversation, check extensions 1 and 2
  - [3D] Replace handsets on check extensions 1 and 2

- AT CONSOLE**
- [4A] Dial keypad digit "n"
    - DESTINATION display shows digit "n" (in Fig. 335-1 "n" is "5")
    - No ringing tone heard
    - ATT lamp lit
  - [4B] Wait at least 10 seconds
    - No ringing tone heard
  - [4C] Press RELEASE



**Note:** Step [2] is for DTMF telephones and gives immediate ring. Step [3] is for DTMF or rotary dial telephones and tests programmed timeout interval (3, 4 or 5s).



Fig. 335-1

SECTION MITL9105/91110-097-215-NA

SINGLE DIGIT DIALING
MAP215-335
Issue 2, February 1982
Sheet 2 of 2

- AT CONSOLE
- [5A] Dial keypad digits "n #"
- DESTINATION display shows check extension number 1 (NOTE 1) and class (Fig. 335-2)
  - ATT and RING lamps lit
  - Ringing tone
- AT CHECK EXTENSION 1
- Bell rings
- [5B] Lift handset
- Two way conversation with console
- [5C] Replace handset at check extension 1
- AT CONSOLE
- [5D] Press RELEASE
- Both parties idle

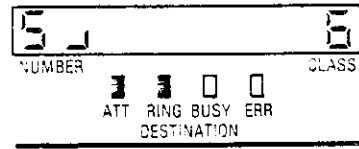
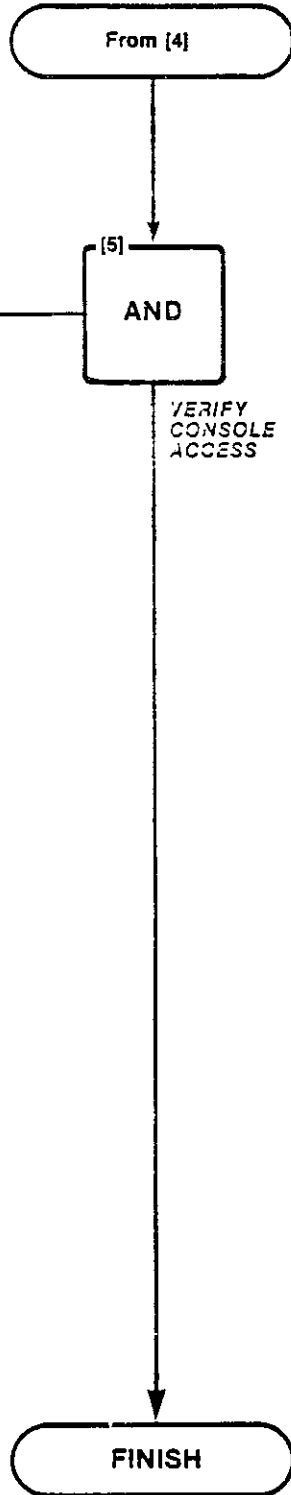
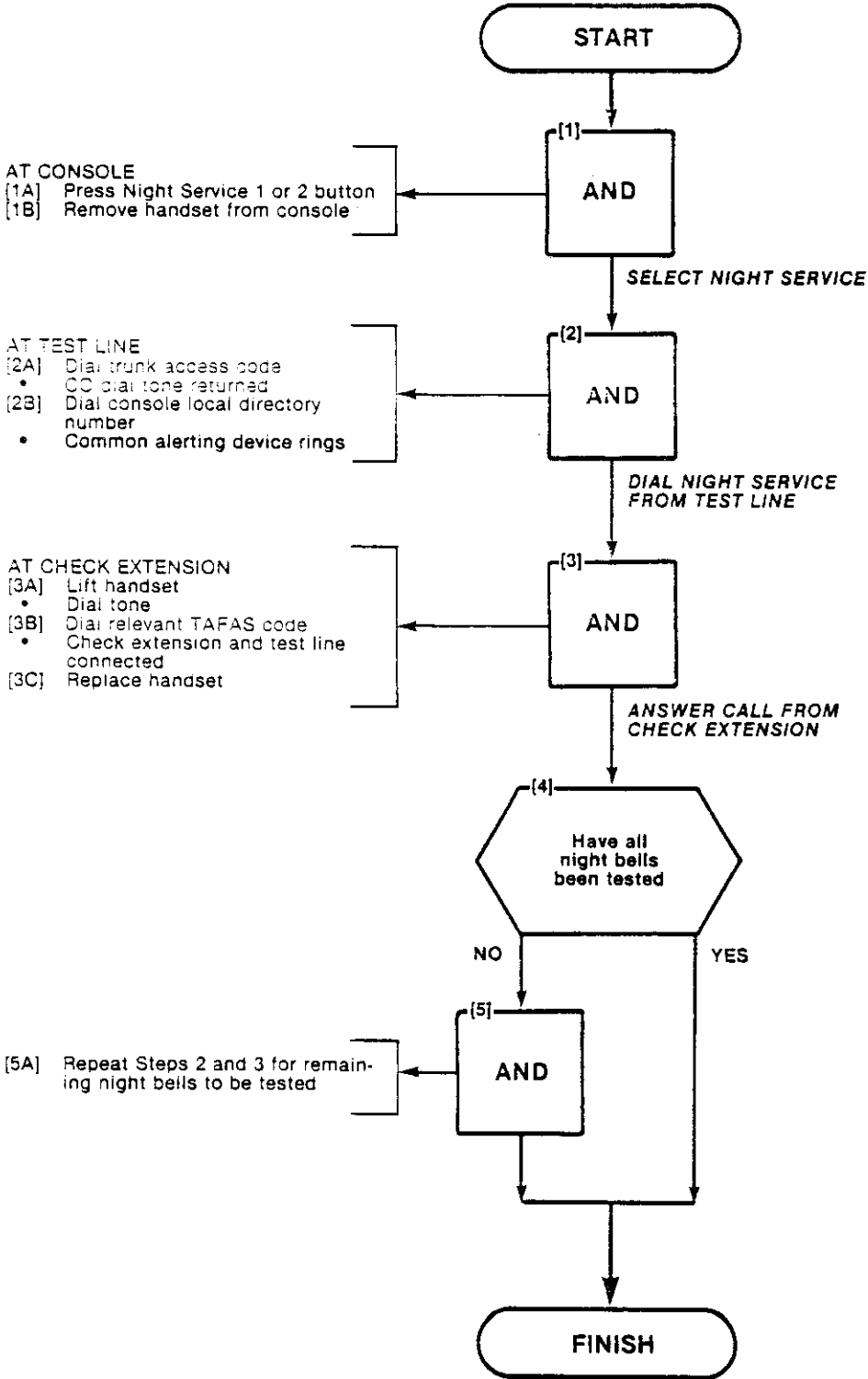


Fig. 335-2

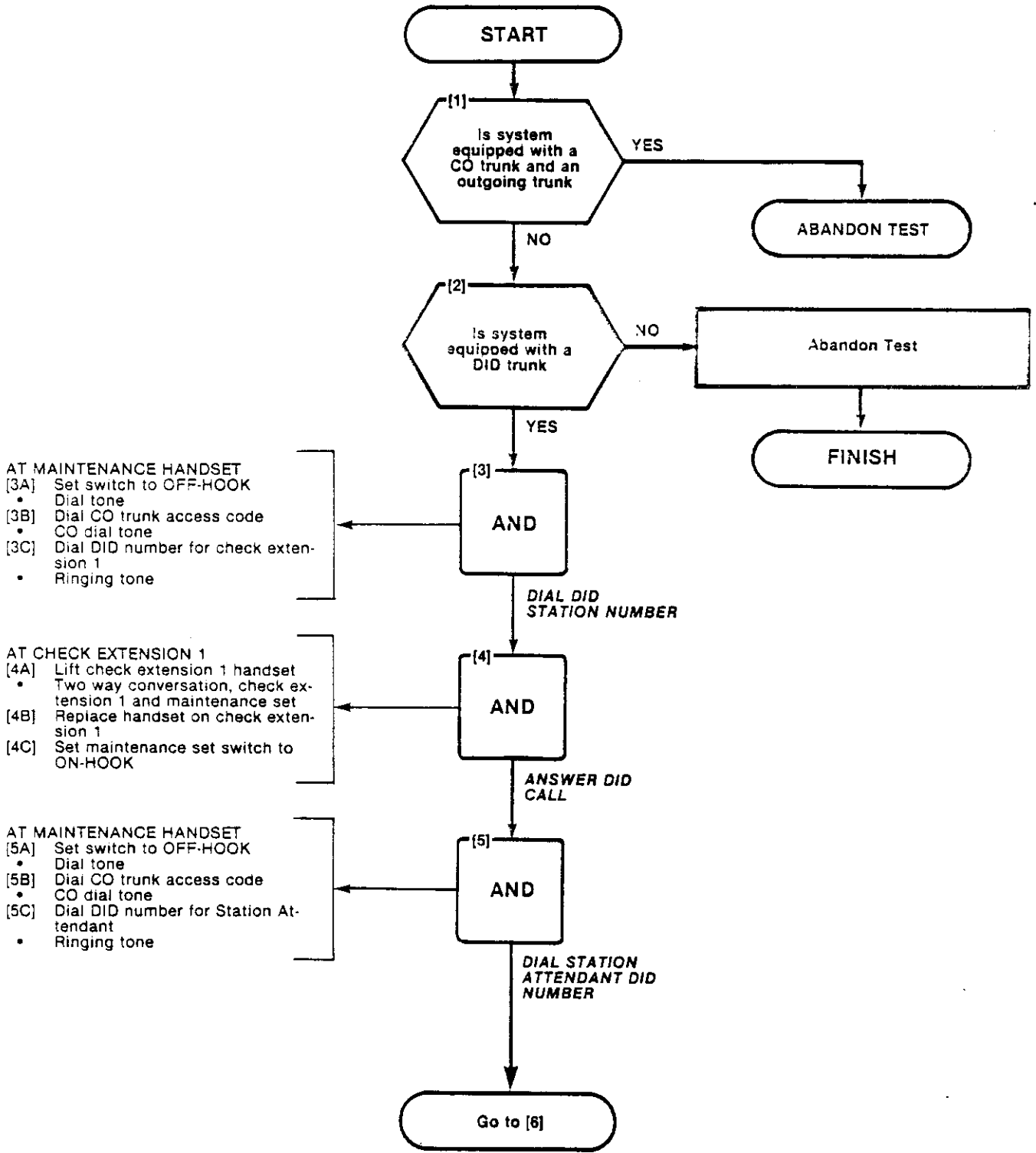


COMMON ALERTING DEVICES
MAP215-336
Issue 2, February 1982
Sheet 1 of 1

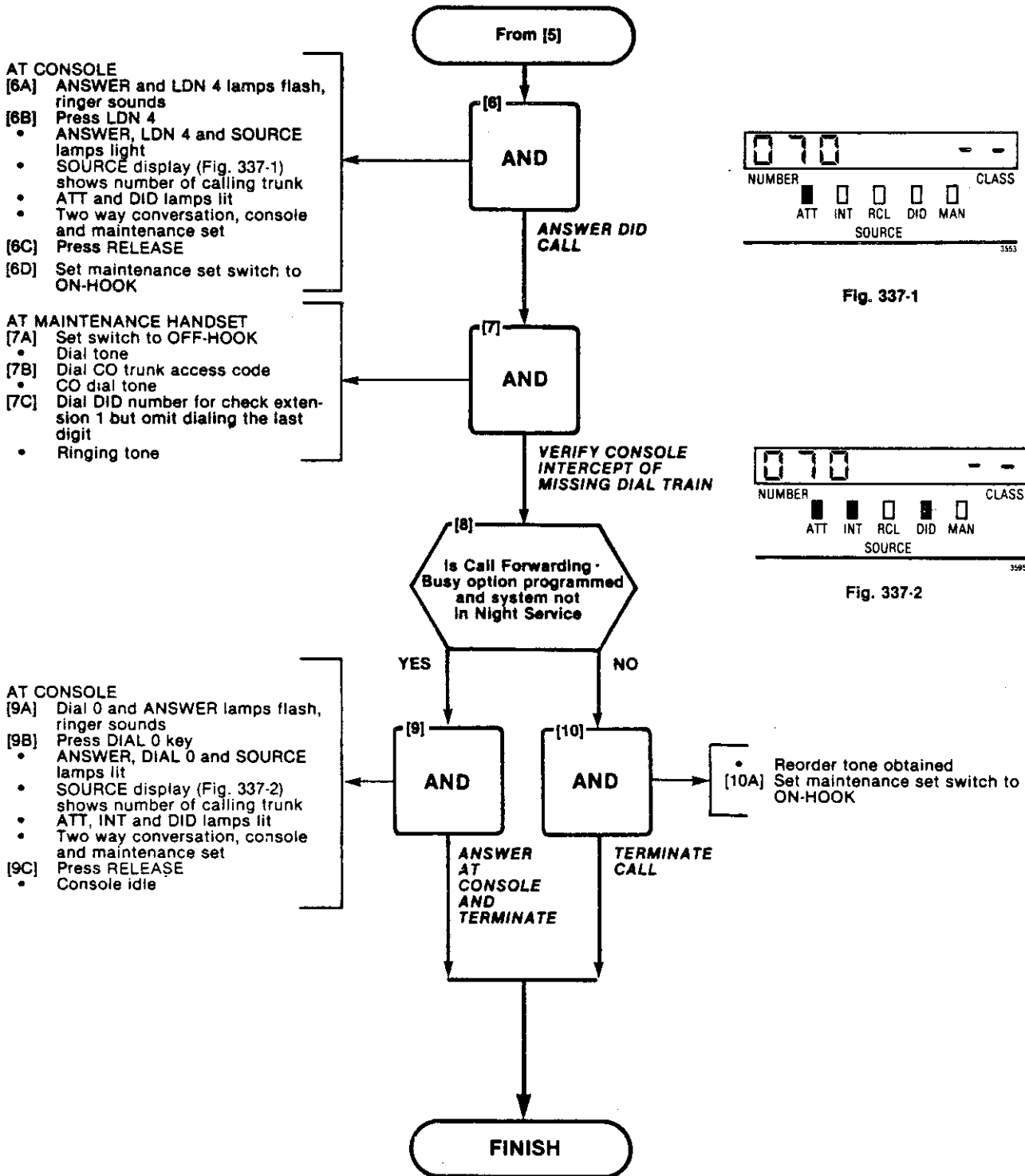




ANSWER DID TRUNK CALL
MAP215-337
Issue 2, February 1982
Sheet 1 of 2



ANSWER DID TRUNK CALL
MAP215-337
Issue 2, February 1982
Sheet 2 of 2



**SX-100\*/SX-200\***  
**SUPERSWITCH\***  
**ELECTRONIC PRIVATE AUTOMATIC BRANCH EXCHANGE**  
**EXTENSION TEST PROCEDURES**  
**GENERIC 216**

CONTENTS	PAGE	
1. GENERAL . . . . .	1	CHART 2-24 EXTERNAL CALL FORWARDING . . . . . 28
Reason for Reissue . . . . .	1	CHART 2-25 CALL FORWARDING BUSY/DON'T ANSWER . . . . . 29
2. TEST AND OPERATIONAL PROCEDURES	1	CHART 2-26 HANDS-FREE . . . . . 30
General . . . . .	1	CHART 2-27 TRANSFER WITH PRIVACY . . . . . 31
Operating Procedures . . . . .	2	
CHART 2-1 STATION-TO-STATION CALL	3	1. GENERAL
CHART 2-2 HUNT GROUP . . . . .	4	1.01 This section describes the extension test procedures for the SX-100/SX-200 PABX's. These procedures should be performed as operational tests upon installation of extensions after the initial system installation. See SECTION MITL9105/9110-097-200-NA for system installation instructions.
CHART 2-3 BROKER'S CALL . . . . .	5	Reason for Reissue
CHART 2-4 CALL HOLD . . . . .	6	1.02 This practice has been reissued to include additional Generic 216 information requiring an extension test procedure.
CHART 2-5 CALL FORWARDING - BUSY	8	2. TEST AND OPERATIONAL PROCEDURES
CHART 2-6 CALL FORWARDING - DON'T ANSWER . . . . .	9	General
CHART 2-7 CALL FORWARDING - FOLLOW ME . . . . .	10	2.01 Satisfactory completion of the extension test procedures confirms that the apparatus has been installed and programmed correctly.
CHART 2-8 OVERRIDE . . . . .	11	
CHART 2-9 DIAL CALL PICKUP . . . . .	12	
CHART 2-10 CAMP-ON . . . . .	13	
CHART 2-11 AUTOMATIC CALLBACK - BUSY . . . . .	14	
CHART 2-12 DO NOT DISTURB . . . . .	15	
CHART 2-13 CALL PARK/PICKUP . . . . .	16	
CHART 2-14 PAGING . . . . .	17	
CHART 2-15 TRUNK ANSWER FROM ANY STATION . . . . .	18	
CHART 2-16 CONSULTATION HOLD/TRANSFER/ADD-ON . . . . .	19	
CHART 2-17 AUTOMATIC WAKE-UP (ALARM) CALL . . . . .	21	
CHART 2-18 MEET-ME CONFERENCE . . . . .	22	
CHART 2-19 AUTOMATIC CALLBACK - DON'T ANSWER . . . . .	23	
CHART 2-20 DIRECTED CALL PICKUP . . . . .	24	
CHART 2-21 STATION CONFERENCE . . . . .	25	
CHART 2-22 SPEED CALL . . . . .	26	
CHART 2-23 SAVED NUMBER REDIAL . . . . .	27	

## **SECTION MITL9105/9110-097-320-NA**

**2.02** If any operating procedure cannot be completed as described, verify that:

- The procedure is applicable to the extension (i.e. the feature being tested is assigned to the extension)
- The apparatus which provides the feature (e.g. music on hold) is correctly installed

### **Operating Procedures**

**2.03** Chart 2-1 should be performed on each extension. Charts 2-2 through 2-27 should be performed once per system.

CHART 2-1  
STATION-TO-STATION CALL

STEP	ACTION	VERIFICATION
Called Station Idle:		
1	Lift handset	Dial tone returned
2	Dial any extension number	Dial tone removed after first digit; ringback tone heard after completion of dialing
3	Called extension answers	Ringback tone removed; two-way conversation
4	Called and calling extensions replace handsets	
Called Station Busy (Enable Callback Busy):		
5	Lift handset	Dial tone returned
6	Dial originating extensions number	Busy tone returned
7	Dial Callback code	Dial tone returned
8	Replace handset	
9	Busy extension goes on-hook	Original extension rings
10	Original extension answers	Ringback tone returned. Called extension rings
11	Called extension answers	Two-way conversation
Called Station Busy (Member of a Hunt Group):		
12	Lift handset	Dial tone returned
13	Dial Hunt Group access code	Dial tone removed after first digit; ringback tone heard; next free extension of group is rung
14	Free extension answers	Ringback tone removed; two-way conversation
15	Extensions replace handset	

CHART 2-2  
HUNT GROUP

STEP	ACTION	VERIFICATION
First Station Idle (Terminal):		
1	Lift handset	Dial tone returned
2	Dial Hunt Group access code	Dial tone removed after first digit; ringback tone heard upon completion of dialing. First extension in group hears ringing
3	First extension answers	Ringback tone removed; two-way conversation
First Station Busy (Terminal):		
4	Repeat 1 and 2 above	Next idle extension in group hears ringing
5	Next idle extension answers	Ringback tone removed, two-way conversation
Hunt Groups (Circular):		
6	Repeat steps 1 and 2	Hunting starts at the extension after the last extension rung in the group. System will ring first idle extension in the hunt group, if no idle extension is found, busy tone is returned



CHART 2-3  
BROKER'S CALL

STEP	ACTION	VERIFICATION
Extension in conversation wishes a private alternative conversation after flashing switchhook:		
1	Flash switchhook	Transfer dial tone returned
2	Extension dials number of third party	Third party phone rings
3	Third party answers	Extension and third party may now converse in private
4	Extension flashes switchhook	Extension returns to original (1st) party
5	Third party is on hold. Extension may alternate between conversations by flashing switchhook	The three parties CANNOT be joined together in one conversation

**CHART 2-4  
CALL HOLD**

STEP	ACTION	VERIFICATION
To set up a CALL HOLD:		
1	Extension in conversation wishes to put call on hold, flashes switchhook	No tones or sound heard by extension on hold unless MOH is provided. Flashing extension receives transfer dial tone
2	Extension dials Call Hold code	Dial tone returned
3	Extension replaces handset	Extension is now free to make or receive calls
To retrieve the call at the original extension:		
4	Extension lifts handset	Dial tone returned
5	Extension dials Call Hold local retrieve code	Extension connected to call on hold
To retrieve a call at another extension:		
6	Extension lifts handset	Dial tone returned
7	Extension dials Call Hold Remote Retrieve code	No tones or sound heard
8	Extension dials Call Holding extension's number	Extension connected to call on hold
To use CALL HOLD as a Broker feature:		
9	Perform steps 1, 2 and 3 under "To set up a CALL HOLD"	
10	Extension lifts handset	Dial tone returned
11	Extension dials third party	Ringback tone heard, third extension's phone is ringing
12	Third party answers	Conversation takes place
13	Extension flashes switchhook	Transfer dial tone is returned
14	Extension dials Call Hold code	Third party is placed on hold, second party is retrieved

CHART 2-4 (CONT'D)  
CALL HOLD

STEP	ACTION	VERIFICATION
15	Controlling extension may repeat steps 13 and 14 as often as required	Each repetition exchanges the party on hold with the one in the conversation
To join all three parties into one conversation:		
16	Extension flashes switchhook on second extension	Transfer dial tone returned
17	Extension dials Call Hold Retrieve code	Extension connected to third party
18	Extension flashes switchhook	Three parties in conversation

**Note:** A conference CANNOT be put on CALL HOLD.

**CHART 2-5  
CALL FORWARDING - BUSY**

STEP	ACTION	VERIFICATION
To set up CALL FORWARDING - BUSY:		
1	Forwarding extension lifts handset	Dial tone returned
2	Extension dials Call Forwarding - Busy code, and number of extension to which calls are to be forwarded (calls may also be forwarded to the attendant)	Dial tone returned; forwarding successful
3	Extension replaces handset	
To test CALL FORWARDING - BUSY:		
4	At extension in 1-3 lift handset	Dial tone returned
5	At an alternate extension lift the handset	Dial tone returned
6	Dial extension with Call Forwarding - Busy in effect	Ringback tone returned extension that was forwarded to rings
7	Replace handset	
To cancel a CALL FORWARDING - BUSY:		
8	Extension lifts handset	Dial tone returned
9	Extension dials Call Forwarding - Busy code	No tones or sound heard
10	Extension replaces handset	Cancellation complete
To test cancellation:		
11	Repeat step 4	Busy tone returned
12	Replace handset	

CHART 2-6  
CALL FORWARDING - DON'T ANSWER

STEP	ACTION	VERIFICATION
To set up CALL FORWARDING - DON'T ANSWER:		
1	Extension lifts handset	Dial tone returned
2	Extension dials Call Forwarding - Don't Answer code and number of extension to which calls are to be forwarded (calls may also be forwarded to the attendant)	Dial tone returned; forwarding successful
3	Extension replaces handset	
To test CALL FORWARDING - DON'T ANSWER:		
4	At an alternate extension lift the handset	Dial tone returned
5	Dial extension with Call Forwarding - Don't Answer in effect	Ringback tone returned. Do not answer the call after a time-out. The call will be transferred to the extension selected in 2
6	Replace handset	
To cancel CALL FORWARDING - DON'T ANSWER:		
7	Extension lifts handset	Dial tone returned
8	Extension dials Call Forwarding - Don't Answer code	No tones or sound heard.
9	Extension replaces handset	Cancellation complete
To test cancellation:		
10	Repeat steps 4 and 5	Extension dialled rings normally
11	Replace handset	

**CHART 2-7  
CALL FORWARDING - FOLLOW ME**

STEP	ACTION	VERIFICATION
To set up CALL FORWARDING - FOLLOW ME:		
1	Extension lifts handset	Dial tone returned
2	Extension dials Call Forwarding - Follow Me code and number of extension to which calls are to be forwarded (calls may also be forwarded to the attendant)	Dial tone returned; forwarding successful
3	Extension replaces handset	
To test CALL FORWARDING - FOLLOW ME:		
4	At an alternate extension lift the handset	Dial tone returned
5	Dial the extension with Call Forwarding - Follow Me in effect	Ringback tone returned, extension that was forwarded to rings
6	Replace handset	
To cancel CALL FORWARDING - FOLLOW ME:		
7	Originating extension lifts handset	Dial tone returned
8	Originating extension dials Call Forwarding - Follow Me code	No tones or sound heard
9	Extension replaces handset	Cancellation complete

CHART 2-8  
OVERRIDE

STEP	ACTION	VERIFICATION
1	Establish a two-party call	Talking connection
2	Extension lifts handset	Busy tone returned
3	Dial busy extension	Busy tone returned
4	Calling extension dials Override code	Parties in conversation hear a one second warning tone unless the COS of one or more of them prevents being overridden. After beep, calling extension is in conversation. All extensions will hear a short warning tone every six seconds

CHART 2-9  
DIAL CALL PICKUP

STEP	ACTION	VERIFICATION
Any extension in the Pickup group is ringing:		
1	Idle extension lifts handset	Dial tone returned
2	Extension dials Dial Call Pickup code	Extension is connected to calling party



CHART 2-10  
CAMP-ON

STEP	ACTION	VERIFICATION
1	Establish a two-party call	
2	Extension lifts handset	Dial tone returned
3	Dial busy extension	Busy tone returned
4	Calling extension remains off-hook for more than ten seconds	a) Calling extension after ten seconds receives a change in busy tone b) The dialed extension receives a short warning tone
5	Busy extensions hang up	Dialed extension is rung

CHART 2-11  
AUTOMATIC CALLBACK - BUSY

STEP	ACTION	VERIFICATION
1	Extension lifts handset	Dial tone returned
2	Dial busy extension	Busy tone returned
3	Calling extension dials Automatic Callback - Busy code	Dial tone returned
4	Calling extension replaces handset	
5	Called extension replaces handset	a) Calling extension rings b) Called extension rings when calling extension answers c) Calling extension hears ringback tone d) two-way conversation

CHART 2-12  
DO NOT DISTURB

STEP	ACTION	VERIFICATION
Extension sets up DO NOT DISTURB:		
1	Extension lifts handset	Dial tone returned
2	Extension dials Do Not Disturb code followed by 1	Dial tone returned
3	Extension replaces handset	
4	Extension is not called while in the Do Not Disturb mode	A calling extension receives reorder tone or attendant intercept
Extension cancels DO NOT DISTURB:		
5	Extension lifts handset	Dial tone returned
6	Extension dials Do Not Disturb code followed by 2	No tone or sound, Do Not Disturb is cancelled
7	Extension replaces handset	Calling extensions can ring the original extension

**CHART 2-13  
CALL PARK/PICKUP**

STEP	ACTION	VERIFICATION
To park an established call:		
1	Flash switchhook	Transfer dial tone returned
2	Extension dials Call Park code	Dial tone returned to parking extension. No tones or sound heard unless music provided to parked extension
3	Extension replaces handset	
To pick up a parked call from the parking extension:		
4	Extension lifts handset	Extension connected to parked call
To pick up a parked call using an alternate extension:		
5	Lift handset of alternate extension	Dial tone returned
6	Alternate extension dials Call Park/Directed Call Pickup code and number of parking extension	Alternate extension connected to parked call

CHART 2-14  
PAGING

STEP	ACTION	VERIFICATION
1	Extension lifts handset	Dial tone returned
2	Extension dials Paging zone code	Extension receives a short warning tone. Extension may now page
3	Extension replaces handset	

Repeat for each of the three codes if assigned.

CHART 2-15  
TRUNK ANSWER FROM ANY STATION

STEP	ACTION	VERIFICATION
To answer a TAFAS call:		
1	Extension user hears Night Bell	
2	Extension lifts handset	Dial tone returned
3	Extension dials TAFAS night code	Extension is connected to trunk call

**CHART 2-16**  
**CONSULTATION HOLD/TRANSFER/ADD-ON**

STEP	ACTION	VERIFICATION
CONSULTATION HOLD:		
Established Call:		
1	Extension flashes switchhook	a) Flashing extension receives transfer dial tone b) Second extension in conversation is put on Hold, and hears music if provided
2	Extension which flashed, dials third extension	Third extension rings
3	Third extension is is answers	Effecting extension and third extension is connected. Second extension remains on Hold
TRANSFER:		
To idle extension:		
4	Perform steps 1 and 2 in Consultation Hold	Third extension rings
5	Extension effecting transfer replaces handset	Extension on Hold receives ringing tone, and is connected to third extension when it is answered
To busy extension:		
6	Perform steps 1 and 2 in Consultation Hold	Third extension busy, effecting extension receives busy tone
7	Extension effecting transfer replaces handset	Extension on Hold receives busy tone and is Camped-On busy line after 10 seconds
During consultation:		
8	Perform steps 1 to 3 in Consultation Hold	Effecting extension and third extension converse
9	Effecting extension hangs up	Extension on hold and third extension connected

CHART 2-16 (CONT'D)  
CONSULTATION HOLD/TRANSFER/ADD-ON

STEP	ACTION	VERIFICATION
ADD-ON:		
10	Perform steps 1 to 3 in Consultation Hold	Effecting extension and third extension connected. Second extension remains on Hold
11	Effecting extension flashes switchhook	All three extensions connected
After three-way consultation:		
12	Perform steps 1 to 3 in Consultation Hold	Effecting extension and third extension converse
13	Effecting extension flashes switchhook	All extensions connected
14	Effecting extension replaces handset	Remaining extensions remain connected



CHART 2-17  
AUTOMATIC WAKE-UP (ALARM CALL)

STEP	ACTION	VERIFICATION
Extension sets AUTOMATIC WAKE-UP (ALARM CALL):		
1	Extension lifts handset	Dial tone returned
2	Extension dials Automatic Wake-Up access code and Wake-Up time as a four-digit number (24-hour clock)	Dial tone returned
3	Extension replaces handset	
4	At selected time	Extension receives 6 rings every 5 minutes for a total of three attempts a) Extension receives no tone or receives MOH is provided
Extension cancels AUTOMATIC WAKE-UP (ALARM CALL):		
5	Extension lifts handset	Dial tone returned
6	Extension dials Automatic Wake-Up access code and 9999	Dial tone returned
7	Extension replaces handset	

CHART 2-18  
MEET-ME CONFERENCE

STEP	ACTION	VERIFICATION
To set up a MEET-ME CONFERENCE:		
1	At at prearranged time dial Meet-Me Conference access code from up to seven extensions	First extension on hold. First extension hears warning tone as second extension is connected. Extensions in conference hear warning tone as succeeding extensions are connected

**CHART 2-19**  
**AUTOMATIC CALLBACK - DON'T ANSWER**

STEP	ACTION	VERIFICATION
To set up AUTOMATIC CALLBACK - DON'T ANSWER:		
1	Extension lifts handset	Dial tone returned
2	Extension dials destination	Destination extension rings
3	Extension receives no answer, flashes switchhook	Dial tone returned
4	Extension dials Automatic Callback - Don't Answer code and number of extension called	Dial tone returned
5	Extension replaces handset	
6	Called extension uses extension	Extension goes busy for duration of call
7	Called extension replaces handset	Calling extension rings
8	Calling extension lifts handset	Called extension rings; calling extension hears ringback tone
9	Called extension answers	Conversation takes place

CHART 2-20  
DIRECTED CALL PICKUP

STEP	ACTION	VERIFICATION
Any extension is ringing:		
1	Extension lifts handset	Dial tone returned
2	Extension dials Directed Call Pickup code, and the number of the extension being rung	Extension is connected to call

**CHART 2-21  
STATION CONFERENCE**

STEP	ACTION	VERIFICATION
1	Extension lifts handset	Dial tone returned
2	Extension dials first conferee extension for Station Conference	Called party extension rings
3	Called extension answers  Calling extension informs of conference, flashes switchhook and dials second conferee extension	a) Calling extension and called extension connected b) Called extension goes on hold. Calling extension receives transfer dial tone c) Second conferee extension rings
4	Second conferee answers	
5	Calling extension flashes switchhook	All extensions connected
6	Any extension may add up to a total of 7 extensions to the Station Conference by repeating steps 3 (b) & 3 (c)	

**CHART 2-22**  
**SPEED CALL**

STEP	ACTION	VERIFICATION
Extension programs a SPEED CALL:		
1	Extension lifts handset	Dial tone returned
2	Extension dials Speed Call Access code	
3	Extension dials 0	
4	Extension dials Speed Call Entry Access code	
5	Extension dials Trunk Group Access code or ARS code	Note 1
6	Extension dials digits to be used as Speed Call Number	Note 1
7	Extension replaces handset	
To verify programmed number:		
8	Extension dials Speed Call Access code	
9	Extension dials Entry Access Number and manual digits if required	If the call is successful, ringback tone will be returned from the CO and the correct number will be rung

**Note:** \*1 for 5 second pause or \*2 for wait for dial tone or \*3nn for user dialed digits may be entered at any time.

**CHART 2-23  
SAVED NUMBER REDIAL**

STEP	ACTION	VERIFICATION
Extension programs a last number redial:		
1	After completion of dialing an outside number, the extension has 10 seconds to dial an *. This will store the dialed number in the last number redial	
To use SAVED NUMBER REDIAL:		
2	Extension goes off-hook	Dial tone returned
3	Extension dials Speed Call Feature Access code	
4	Extension dials Entry Access Number for saved number redial	Saved number dialed rings

**CHART 2-24**  
**EXTERNAL CALL FORWARDING**

STEP	ACTION	VERIFICATION
Extension wishes to transfer all calls to an external number:		
1	Repeat steps 1-7 of CHART 2-22 (Note: It is possible to use manual digit insertion)	
2	Extension lifts handset	Dial tone returned
3	Extension dials the External Call Forwarding Access code	No tone returned
4	Extension dials Speed Call access code and Speed Call Entry access code from 1	Dial tone returned
To verify EXTERNAL CALL FORWARDING:		
5	From an alternate extension dial the External Call Forwarded extension	If the External Call Forwarding is successful, the external number will be rung



**CHART 2-25**  
**CALL FORWARDING BUSY/DON'T ANSWER**

STEP	ACTION	VERIFICATION
Extension wishes to have CALL FORWARDING BUSY/DON'T ANSWER active at the same time:		
1	Extension lifts handset	Dial tone returned
2	Extension dials Call Forwarding Busy/Don't Answer code	No tones returned
3	Extension dials extension number to be forwarded to	Dial tone returned all calls will be forwarded
To test CALL BUSY/DON'T ANSWER:		
4	Repeat steps 4,5 and 6 of CHART 2-5 and 4 and 5 of CHART 2-6.	

CHART 2-26  
HANDS-FREE

STEP	ACTION	VERIFICATION
Extension wishes to place itself in a HANDS-FREE state:		
1	Extension lifts handset	Dial tone returned
2	Extension dials Hands-Free access code or remains off-hook for 15 seconds	No tone returned, extension now in Hands-Free state
3	To remove extension from Hands-Free state, return handset to on-hook position	Extension will be rung normally

CHART 2-27  
TRANSFER WITH PRIVACY

STEP	ACTION	VERIFICATION
An extension wishes to consult with two parties privately with the option of connecting them both together by going on-hook:		
1	Extension is conversing with first party	Normal conversation
2	Extension flashes the switchhook	Dial tone returned
3	Extension dials new extension number	Ringback tone returned, and extension converses privately when call is answered
4	Extension flashes switchhook returns to original party. Extension may alternate between parties privately by flashing the switchhook	Private conversation between original party and extension
5	Extension returns the handset to the on-hook position	Both parties may now converse

