## Task Oriented Practice (TOP)

## 1D/2D TYPE COIN TELEPHONE SETS

(DTF ONLY)

INSTALLATION, CONVERSION, MAINTENANCE, AND CONNECTIONS

## NOTE

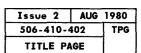
Before using TOP for the first time, complete the TOP-USER Plant Training Course—PTC No. 278.

A short version of PTC No. 278 is in the back of this volume.

## NOTICE

Not for use or disclosure outside the Bell System except under written agreement

Printed in U.S.A.



ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSU
CKL-000	+ +	◆ DLP-511		● DLP-546			1 1				<del>                                     </del>
RTL-001	1 1	DLP-512	1	● DLP-547		l	1 1	Į	I I		l
ATL-030		● DLP-513		● DLP-548	1 1					İ	i
● COL-050		DLP-514	1 1	● DLP-549				j			
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● COP-052		DLP-516									
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● COP-057		● DLP-521									
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● TAD-100		● DLP-523	1		1 1	İ	1 1				l
◆ TAP-101		DLP-524	1 1			ļ					ļ
TAP-102		DLP-525							L		L
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TAP-109		● DLP-532	1 1								
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<ul><li>TAP-111</li></ul>		DLP-534	1 1		1	Ì			1	1	1
● DLP-500		● DLP-535			ļ ´					1	l
● DLP-501		● DLP-536									
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● DLP-507		● DLP-542			[						
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DLP-510		● DLP-545									
		REVISED OR ADDE	D ITEM		CANCEL	ED ITEM				Issue 2 AUG	1980
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		~~									_

ROUTINE TASKS		PROCEDUR! NUMBER
	/	
NONE REQUIRED		
		1 444 1
	Issue 2 506-410	
OUTINE TASK LIST - 1D/2D-TYPE COIN TELEPHONE SET	PAGE 1	

ACCEPTANCE TASKS		PROCEDUR NUMBER
NONE REQUIRED		
	Issue 2	AUG 198
	506-410	
CCEPTANCE TASK LIST - 1D/2D-TYPE COIN TELEPHONE SET	PAGE 1 c	

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COMPANY ORDER TASKS	1	PROCEDURI NUMBER
SERVICE ORDERS		
Install 1D1, 1D2 Coin Telephone Set in Dial-Tone-First Mode and Test		COP-051
Install 2D1, 2D2 Coin Telephone Set in Dial-Tone-First Mode and Test		COP-052
Convert 1C-, 2C-Type Set in Dial-Tone-First Mode to 1D-, 2D-Type Set Dial-Tone-First Mode and Test		COP-053
Convert 1C-, 2C-Type Set in Coin-First Mode to 1D-, 2D-Type Set Dial-Tone-First Mode and Test		COP-054
Convert 1A-, 2A-Type Set in Coin-First Mode to 1D-, 2D-Type Set Dial-Tone-First Mode and Test		COP-055
Convert 1E1 Dial Postpay to 1D-Type Dial-Tone-First and Test		COP-056
Convert 1E3 Manual Postpay to 1D-Type in Dial-Tone-First and Test		COP-057
	Issue 2 506-410-40	

ITEM	SUBTASKS		PROCED NUMBI	
	NOTE: Generally for new installations, Items 1 through 8 must be performed. Additional informations regarding these tasks is provided in TAD-100	on		-
1	Install Drop Wire (if required)		_	
2	Install Protection and Ground (if required)		DLP-5	37
3	Install Inside Wire (if required)		_	
4	Install Backboard (if required)		_	
5	Install Shelf (if required)		-	
6	Install Security Devices (if required)		_	
7	Install Extension Station (if required)		_	
8	Install Auxiliary or Extension Ringer (if required)	,	_	
9	Check Location and Mounting Facilities		DLP-50	00
10	Remove Coin Cover Unit		DLP - 50	01
11	Remove Coin Chute		DLP-50	02
12	Remove Coin Chassis		DLP-50	03
13	Attach Housing to Mounting Surface		DLP-50	04
14	Verify or Set Initial Rate		DLP-50	05
15	Install 32A Coin Chassis		DLP-50	06
16	Install Coin Chute		DLP-50	07
17	Install KS-20950, List 2 Cover Parking Tool or P11C Patch Cord		DLP-50	08
18	Measure Loop Resistance		DLP-50	09
19	Measure Ground Resistance		DLP-51	10
20	Perform Operational Tests		DLP-51	11
21	Remove KS-20950, List 2 Cover Parking Tool or P11C Patch Cord			
	The state of the s	Issue 2	AUG 19	000
	<del> </del>	506-410-4		COP
TNST	ALL 1D1, 1D2 COIN TELEPHONE SET	PAGE 1 of	2 (	051

ITEM	SUBTASKS	PROCEDURE NUMBER
22	Install Number Card and Coin Cover Unit on 1D1 (Rotary Dial) Coin Telephone Set, if applicable	_
	1. Install Coin Cover Unit	DLP-512
	2. Remove Dial Fingerwheel	DLP-513
	3. Install Number Card	_
	4. Install Dial Fingerwheel	DLP-514
23	Install Number Card and Coin Cover Unit on 1D2 (TOUCH-TONE® Dial) Coin Telephone Set, if applicable	
	1. Detach Coin Dial Unit	DLP-515
	2. Install Number Card	DLP-516
	3. Secure Coin Dial Unit	DLP-517
	4. Install Coin Cover Unit	DLP-512
24	Install Instruction Cards	DLP-518
25	Make Coin Release Lever and Call Back Test	DLP-519
INSTA	Issue 2 506-41 ALL 1D1, 1D2 COIN TELEPHONE SET PAGE 2	0-402 COP

ITEM	SUBTASKS		PROCE NUM	EDURE BER
	NOTE: Generally for new installations, Items 1 through 8 must be performed. Additional informative regarding these tasks is provided in TAD-100	ion		
1	Install Drop Wire (if required)		_	
2	Install Protection and Ground (if required)		DLP-	537
3	Install Inside Wire (if required)		_	
4	Install Backboard (if required)			
5	Install Shelf (if required)		_	
6	Install Security Devices (if required)		_	
7	Install Extension Station (if required)		_	
8	Install Auxiliary or Extension Ringer		_	
9	Check Location and Mounting Facilities		DLP-	500
10	Open Door and Faceplate Assembly		DLP-	501
11	Remove Coin Chute		DLP-	502
12	Remove Coin Chassis		DLP-	503
13	Attach Housing to Mounting Surface		DLP-	520
14	Verify or Set Initial Rate		DLP-	505
15	Install 32A Coin Chassis		DLP-	506
16	Install Coin Chute		DLP-	507
17	Install Pl1C Patch Cord		DLP-	508
18	Measure Loop Resistance		DLP-	509
19	Measure Ground Resistance		DLP-	510
20	Perform Operational Tests		DLP-	511
21	Remove PliC Patch Cord		•	
		Issue 2	AUG	1980
	<del> </del>	506-410-		COP
TNICT	TALL 2D1, 2D2 COIN TELEPHONE SET	PAGE 1 of	f 2	052

ITEM	SUBTASKS		PROCEDURI NUMBER
22	Install Number Card on 2Dl (Rotary Dial) Coin Telephone Set, if applicable		_
	1. Close Door and Faceplate Assembly		DLP-512
	2. Remove Dial Fingerwheel		DLP-513
	3. Install Number Card		_
	4. Install Dial Fingerwheel		DLP-514
23	Install Number Card on 2D2 (TOUCH-TONE® Dial) Coin Telephone Set, if applicable		_
	1. Detach Coin Dial Unit		DLP-515
	2. Install Number Card		DLP-516
	3. Secure Coin Dial Unit		DLP-517
	4. Close Door and Faceplate Assembly		DLP-512
24	Install Instruction Cards		DLP-518
25	Make Coin Release Lever and Call Back Tests		DLP-519
		Issue 2	AUG 1980
		506-410-	
TNCT	ALL 2D1, 2D2 COIN TELEPHONE SET	PAGE 2 of	2 05

ITEM	SUBTASKS	PROCEDURE NUMBER
1	Verify Proper Protection and Ground	DLP-537
2	Remove Coin Cover Unit or Open Door and Faceplate Assembly	DLP-501
3	Remove Coin Chute	DLP-502
4	Remove Totalizer From Coin Chute	DLP-521
5	Install 47A (MD) or 47A2 Signal on Coin Chute	DLP-522
6	Remove Coin Chassis	DLP-503
7	Verify or Set Initial Rate on 32A Coin Chassis	DLP-505
8	Install 32A Coin Chassis	DLP-506
9	Install Coin Chute	DLP-507
10	Verify Compatibility of Coin Dial Unit	DLP-525
11	Make Wiring Changes on TB2	DLP-523
12	Install KS-20950, List 2 Cover Parking Tool or P11C Patch Cord	DLP-508
13	Verify Loop Resistance	DLP-509
14	Verify Ground Resistance	DLP-510
15	Perform Operational Tests	DLP-511
16	Remove KS-20950, List 2 Cover Parking Tool or P11C Patch Cord	_
17	Install Coin Cover Unit or Close Door and Faceplate Assembly	DLP-512
18	Make Coin Release Lever and Call Back Tests	DLP-519
CONV	ERT 1C-, 2C-TYPE SET IN DIAL-TONE-FIRST MODE TO	
	2D-TYPE SET DIAL-TONE-FIRST MODE PAGE 1	

3 4	·	NUMBER
3 4	Verify Proper Protection and Ground	DLP-537
4	Remove Coin Cover Unit or Open Door and Faceplate Assembly	DLP-501
	Remove Coin Chute	DLP-502
5	Remove Totalizer From Coin Chute	DLP-521
	Install 47A (MD) or 47A2 Signal on Coin Chute	DLP-522
6	Remove Coin Chassis	DLP-503
7	Verify or Set Initial Rate on 32A Coin Chassis	DLP-505
8	Install 32A Coin Chassis	DLP-506
9	Install Coin Chute	DLP-507
10	Verify Compatibility of Coin Dial Unit	DLP-525
11	Make Wiring Changes on TB2	DLP-523
12	Install KS-20950, List 2 Cover Parking Tool or Pl1C Patch Cord	DLP-508
13	Verify Loop Resistance	DLP-509
14	Verify Ground Resistance	DLP-510
15	Perform Operational Tests	DLP-511
16	Remove KS-20950, List 2 Cover Parking Tool or P11C Patch Cord	- 1
17	Replace Information Plate (if provided)	
18	Install Coin Cover Unit or Close Door and Faceplate Assembly	DLP-512
19	Replace Instruction Cards	DLP-524
20	Make Coin Release Lever and Call Back Tests	DLP-519
CONVE	ERT 1C-, 2C-TYPE SET IN COIN-FIRST MODE TO	
	2D-TYPE SET DIAL-TONE-FIRST MODE 10  2D-TYPE SET DIAL-TONE-FIRST MODE  PAGE 1	

ITEM	SUBTASKS	PROCEDURE NUMBER
1	Verify Proper Protection and Ground	DLP-537
2	Remove Coin Cover Unit or Open Door and Faceplate Assembly	DLP-501
3	Remove Coin Chute	DLP-502
4	Remove Totalizer From Coin Chute	DLP-521
5	Install 47A (MD) or 47A2 Signal on Coin Chute	DLP-522
6	Remove Coin Chassis	DLP-503
7	Verify Compatibility of Coin Relay	DLP-526
8	Verify or Set Initial Rate on 32A Coin Chassis	DLP-505
9	Install 32A Coin Chassis	DLP-506
10	Install Coin Chute	DLP-507
11	Verify Compatibility of Coin Dial Unit	DLP-525
12	Make Wiring Changes on TB2	DLP-523
13	Install KS-20950, List 2 Cover Parking Tool or P11C Patch Cord	DLP-508
14	Verify Loop Resistance	DLP-509
15	Verify Ground Resistance	DLP-510
16	Perform Operational Test	DLP-511
17	Remove KS-20950, List 2 Cover Parking Tool or P11C Patch Cord	_
18	Install Coin Cover Unit or Close Door and Faceplate Assembly	DLP-512
19	Replace Instruction Cards	DLP-524
20	Perform Coin Release Lever and Call Back Tests	DLP-519
CON!!!	Issue	
		10-402 COP
<u> 1D-,</u>	2D-TYPE SET DIAL-TONE-FIRST MODE PAGE	1 of 1 055

ITEM	SUBTASKS	' ''- '	EDURE MBER
1	Verify Proper Protection and Ground	DLP	-537
2	Remove Coin Cover Unit	DLP	-501
3	Remove Coin Chute	DLP	-502
4	Remove Totalizer From Coin Chute	DLP	-521
5	Install 47A (MD) or 47A2 Signal on Coin Chute	DLP	-522
6	Remove Coin Chassis	DLP	-503
7	Replace 50A, 50B, or 51A Hopper Assembly With 1AA Coin Relay	DLP	-534
8	Verify or Set Initial Rate on 32A Coin Chassis	DLP	-505
9	Install 32A Coin Chassis	DLP	-506
10	Install Coin Chute	DLP	-507
11	Verify Compatibility of Coin Dial Unit	DLP	-525
12	Make Wiring Changes on TB2	DLP	- 523
13	Install KS-20950, List 2 Cover Parking Tool or P11C Patch Cord	DLP	-508
14	Verify Loop Resistance	DLP	-509
15	Verify Ground Resistance	DLP	-510
16	Perform Operational Tests	DLP	-511
17	Remove KS-20950, List 2 Cover Parking Tool or P11C Patch Cord		-
18	Replace Information Plate (if provided)		_
19	Install Coin Cover Unit	DLP	-512
20	Replace Instruction Cards	DLP	-524
21	Perform Coin Release Lever and Call Back Tests	DLP	-519
	HERT INT CET IN RIAL RACTRAN HARE TA IRI CET		1980
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DIAL-TONE-FIRST MODE PAGE 1 of			056

1	SUBTASKS	PROCEDUR NUMBER
1	Verify Proper Protection and Ground	DLP-537
2	Remove Coin Cover Unit	DLP-501
3	Remove Coin Chute	DLP-502
4	Remove Totalizer From Coin Chute	DLP-521
5	Install 47A (MD) or 47A2 Signal on Coin Chute	DLP-522
6	Remove Coin Chassis	DLP-503
7	Replace 50A, 50B, or 51A Hopper Assembly With 1AA Coin Relay	DLP-534
8	Verify or Set Initial Rate on 32A Coin Chassis	DLP-505
9	Install 32A Coin Chassis	DLP-506
10	Install Coin Chute	DLP-507
11	Obtain New Coin Cover Unit (70A3 Rotary or 71A3 TOUCH-TONE Dial)	_
12	Verify Wiring on TB2	DLP-523
13	Install KS-20950, List 2 Cover Parking Tool or PllC Patch Cord	DLP-508
14	Verify Loop Resistance	DLP-509
15	Verify Ground Resistance	DLP-510
16	Perform Operational Tests	DLP-511
17	Remove KS-20950, List 2 Cover Parking Tool or Pl1C Patch Cord	-
18	Verify Correct Information Plate	_
19	Install Number Card and Coin Cover Unit on 1D1 (Rotary Dial) Coin Telephone Set, if applicable	_
l	1. Install Coin Cover Unit	DLP-512
	2. Remove Dial Fingerwheel	DLP-513
	3. Install Number Card	_
	4. Install Dial Fingerwheel	DLP-514
	PRT 150 CET TAL MAAHIAL BOCTBAY MORE TO	ssue 2 AUG 1980
	the state of the s	06-410-402 CO AGE 1 of 2 O5

ITEM	SUBTASKS	1	EDURE MBER
20	Install Number Card and Coin Cover Unit on 1D2 (TOUCH-TONE® Dial) Coin Telephone Set, if applica	ble	_ ]
	1. Detach Coin Dial Unit	DLP	-515
	2. Install Number Card	DLP	-516
	3. Secure Coin Dial Unit	DLP	-517
	4. Install Coin Cover Unit	DLP	-512
21	Install Instruction Cards	DLP	-518
22	Perform Coin Release Lever and Call Back Tests	DLP	-519
	Is	sue 2 AUG	1980
CONVE	'ST 150 CET THE HANGEL BACTRAY HARE TA	06-410-402	COP
1D1 C	DR 1D2 SET DIAL-TONE-FIRST MODE	AGE 2 of 2	057

TROUBLE INDICATED	MAY ALSO BE REPORTED AS	PROCEDURE NUMBER
MAINTENANCE PHILOSOPHY	- 1940 - Commission - Commissio	TAD-100
TROUBLE REPORTS - VISUAL INSPECTION ITEMS		
Instruction Cards Multilated or Missing		DLP-524
Fingerwheel and/or Number Card Inoperative (Rotary Dial)	Fingerwheel Bent, Number Card Missing or Multilated	DLP-527
Number Card and/or Window (TOUCH-TONE® Dial) Mutilated		DLP-535
Rotary or TOUCH-TONE Dial Inoperative		DLP-531
Handset Broken or Missing	Handset Cord Broken	DLP-530
Switchhook (Coin Dial Unit) Broken		DLP-528
Coin Release Lever Bent or Broken		DLP-532
Coin Return Assembly Mutilated or Missing		DLP-533
Coin Cover Unit Mutilated		DLP-536
TROUBLE REPORTS - NORMAL OPERATIONAL FAILURES		
Telephone Set Does Not Function Properly	No Dial Tone, Doesn't Return Coins, etc.	DLP-529
TROUBLE REPORTS - STATION HAS COIN TROUBLE HISTORY		
Coins Collected or Returned in Error		TAP-111
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	506-410	

TROUBLE INDICATOR LIST - 1D/2D-TYPE COIN TELEPHONE SET

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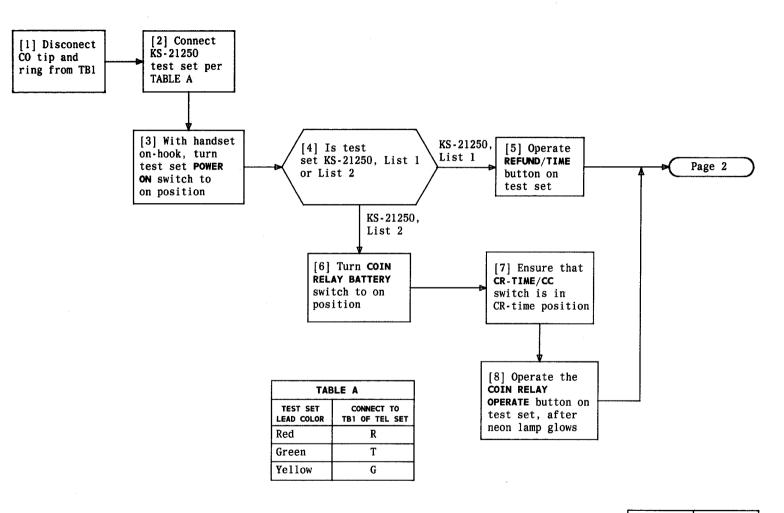
There are many configurations and types of locations in which coin telephone service is provided. Accordingly, a general approach to maintenance of these facilities is advocated in this document, but which may be modified in accordance with local approved telephone company procedures. Because of this diversity of equipment, location, and facilities, it may be necessary to refer to other procedures and documentation to verify that operations contained herein are complete. Refer to TABLE A which lists basic operations not covered in this TOP, with a secondary source of information.

TABLE A				
	SECONDARY SOURCE OF INFORMATION			
ITEM	OPERATION	INFORMATION PROVIDED IN		
1	Install Drop Wire	Appropriate section in Division 460		
2	Install Protection and Ground	Section 506-100-100 and Section 460-100-400		
3	Install Inside Wire	Section 461-200-210		
4	Install Backboard	Section 506-100-101		
5	Install Shelf	Appropriate section in Division 508		
6	Install Security Devices	Section 506-101-400		
7	Install Extension Station	Section 506-100-108		
8	Install Auxiliary or Extension Ringer	Section 506-410-400		

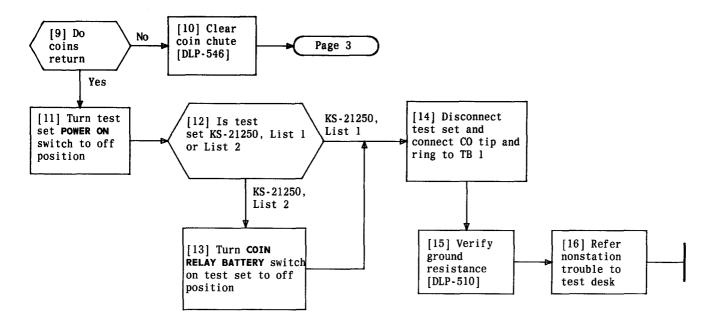
After any component replacement, the coin telephone set shall be tested as a standard maintenance method per DLP-529.

It is possible that normal operational testing may not detect certain marginal operating conditions, particularly in the area of coin collection and coin return. For this reason, certain tests are specified based on history for a particular set. When a set has a history of improper coin operations, three additional tests are provided TAP-111.

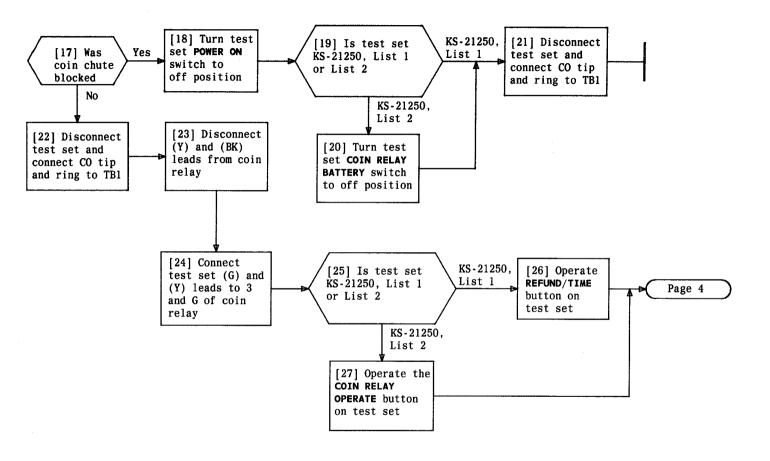
Issue 2	AUG 1980
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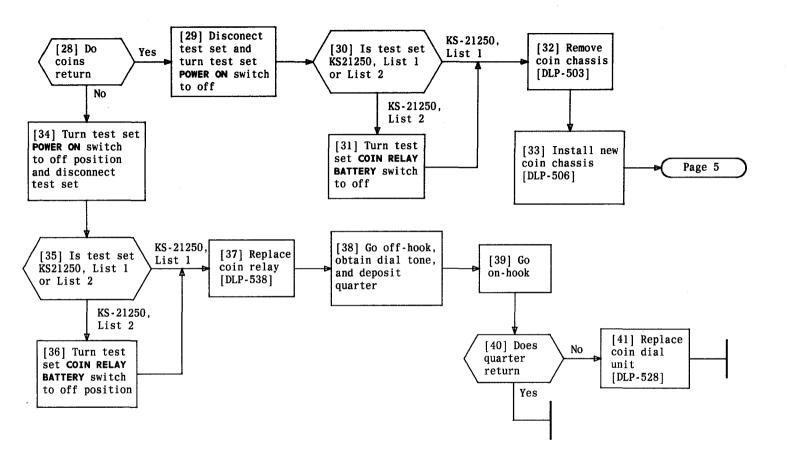
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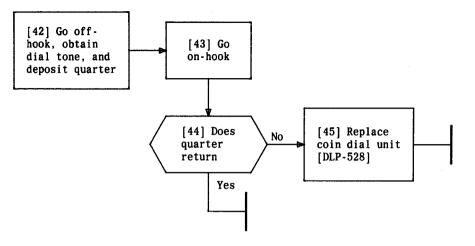
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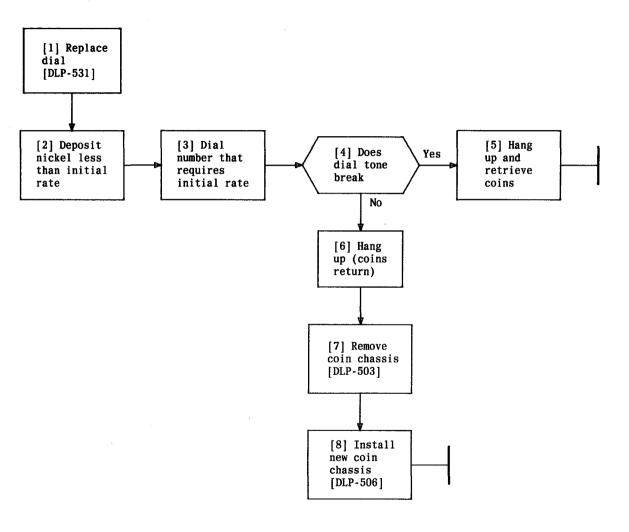
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506-410-4	02	TAP
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Issue 2 AUG	1980
506-410-402	TAP
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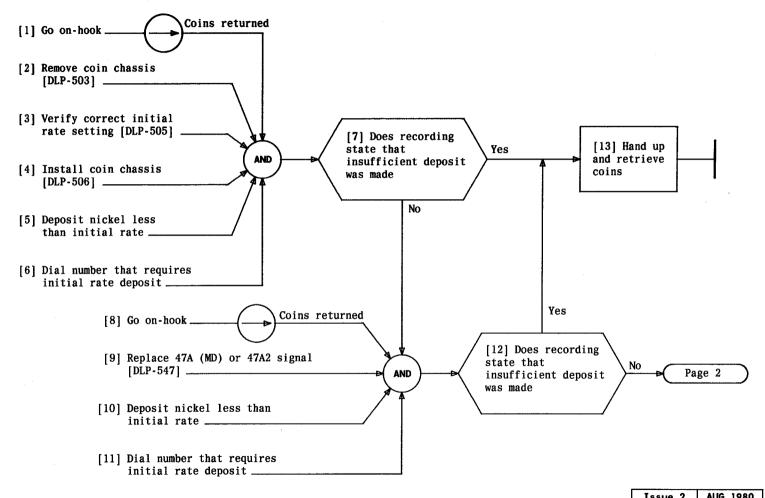


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506-410-4	102	TAP
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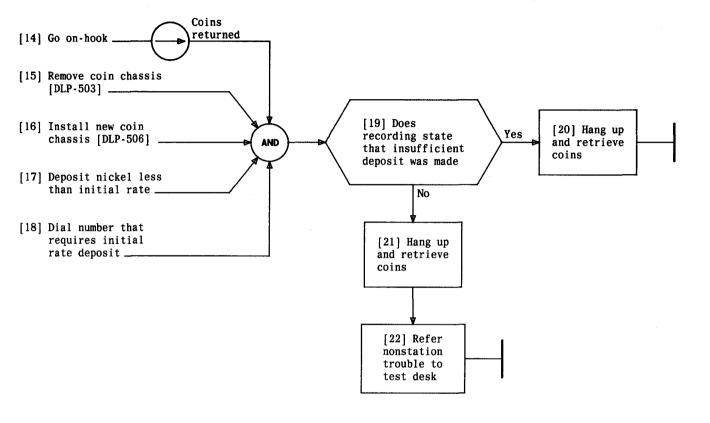


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506-410-4	402	TAP
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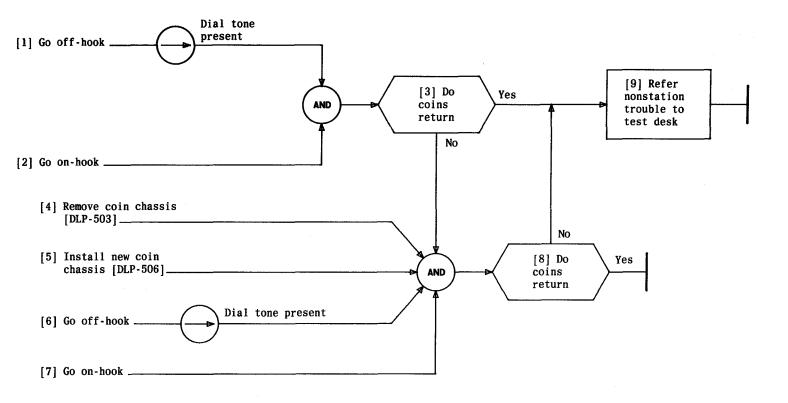
CLEAR CAN'T BREAK DIAL TONE TROUBLE



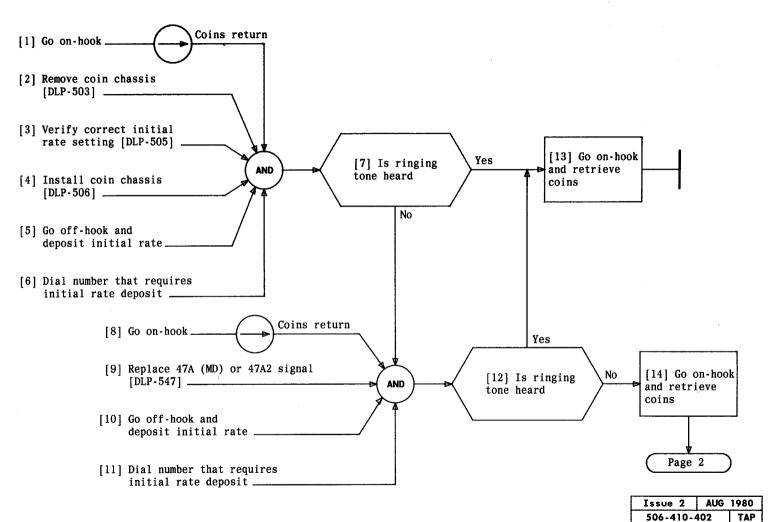
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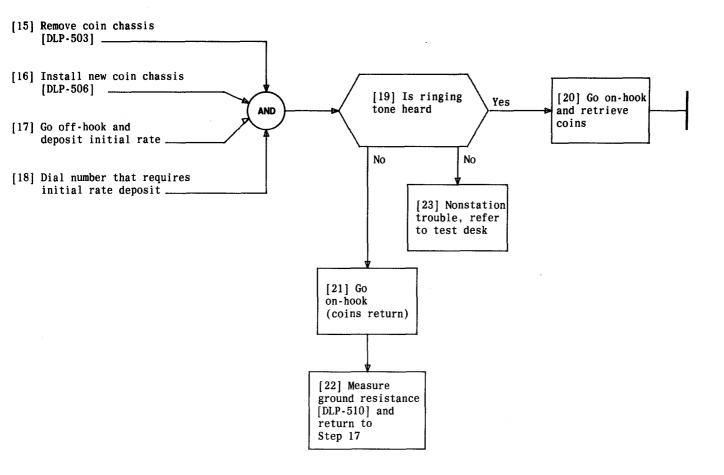
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506-410-4	102 TAP
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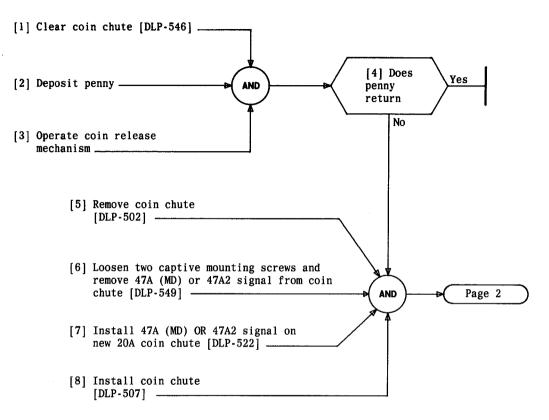
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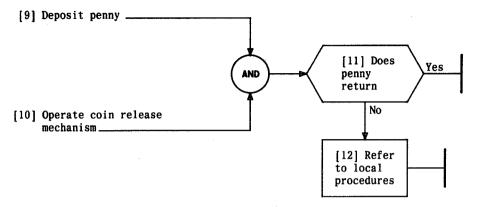
CLEAR RINGING TONE TROUBLE	<b>CLEAR</b>	RINGING	TONE	<b>TROUBLE</b>
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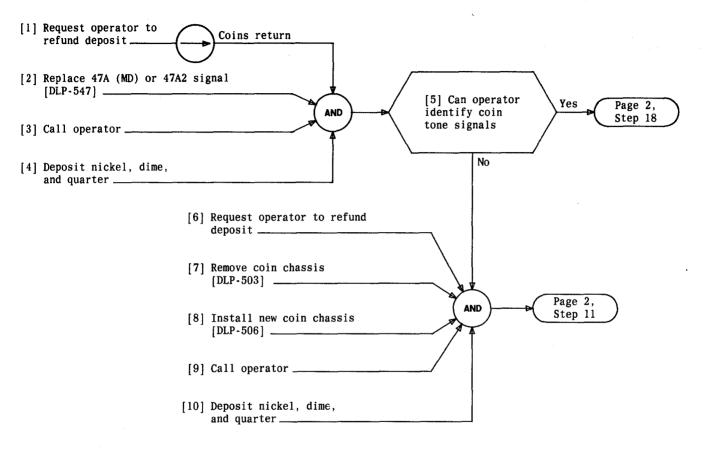
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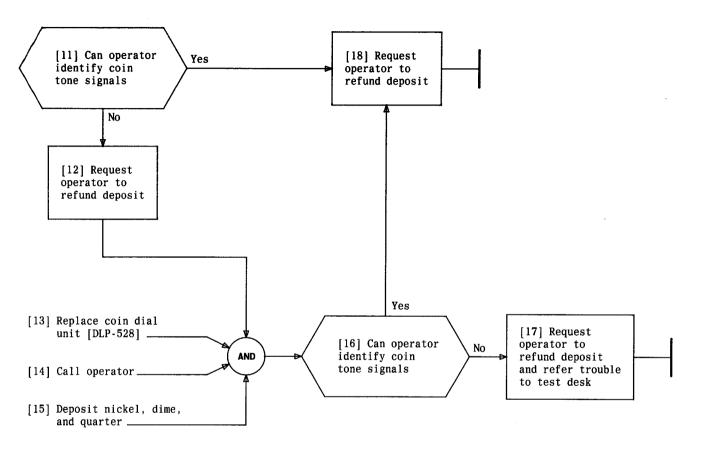
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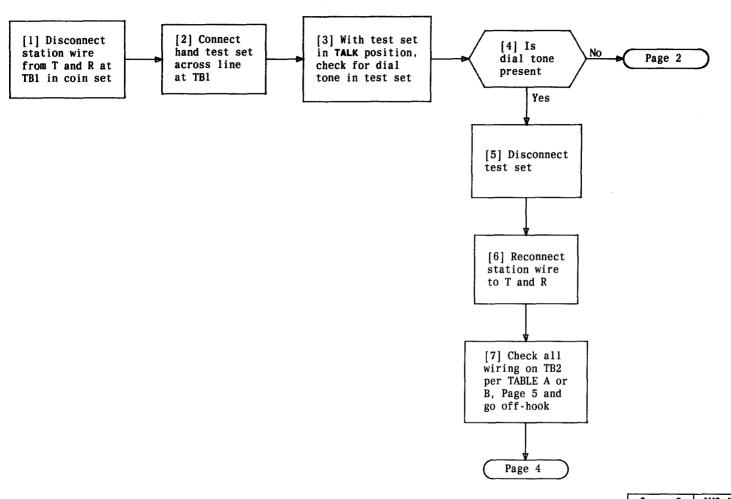
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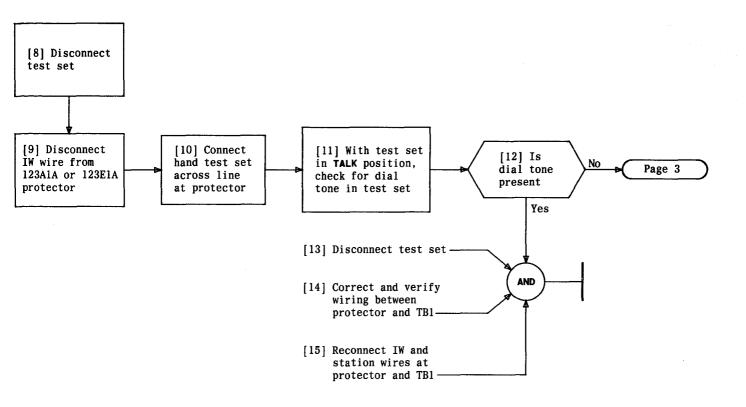
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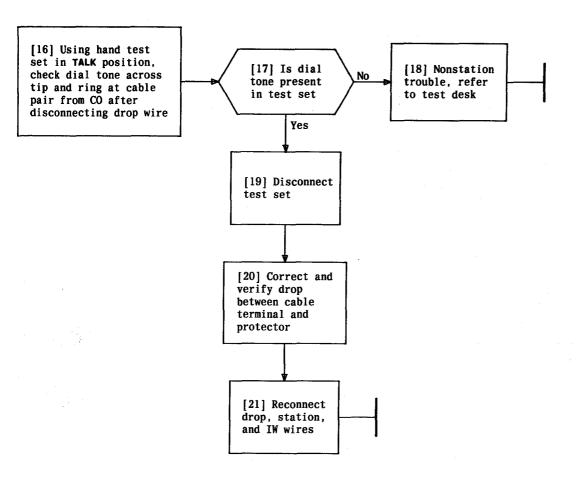
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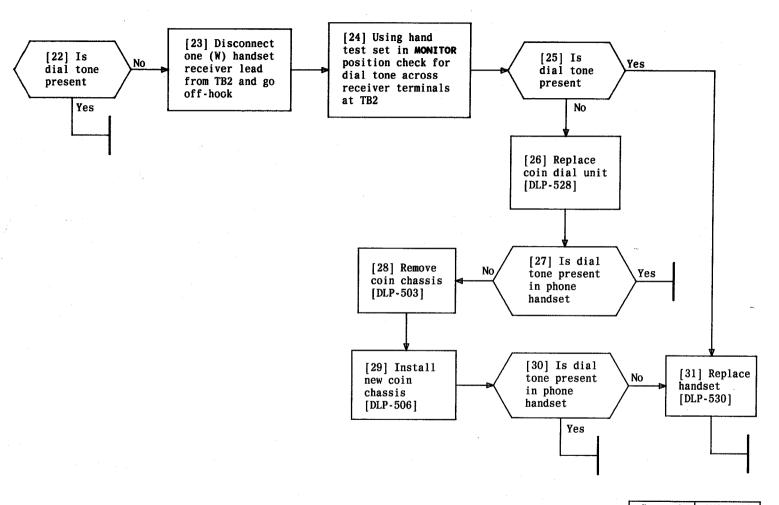
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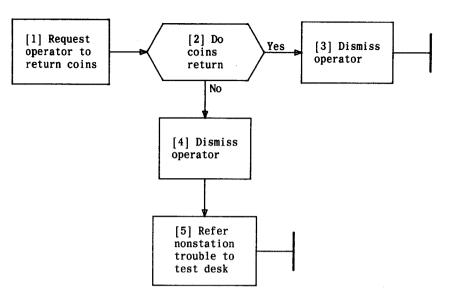
TABLE A							
ROTARY DIAL TELEPHONE SET CONNECTIONS							
COMPONENT WIRE COLOR TB2 COMPONENT WIRE COLOR TB2							
	BL	11		BR	10		
	BL or G	. 8		BR	10		
Dial Handset	W	4		0	9		
	W	3	Switchhook	0	8		
	Y	10		W	2		
	Y	13		Y	7		
	W	4		G	12		
	R	3		S	12		
	BK	6		S-W	14*		
	W	7		R†	12		
Strap	S	2 to 3					

<sup>\*</sup>Terminal 14 appears on new 60A coin dial units only †(R) switchhook lead does not appear on 819042748 (P-90D274) dial and housing assemblies

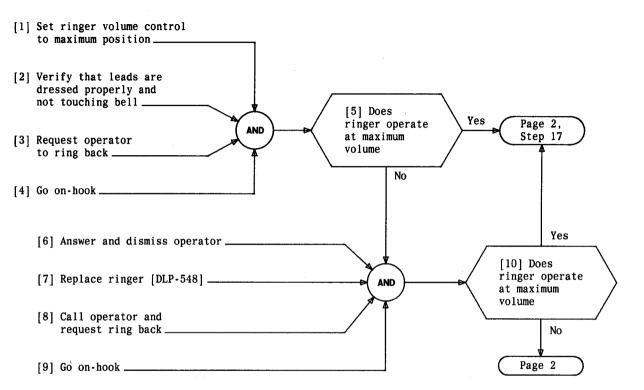
TABLE B						
"TOUCH-TONE" DIAL TELEPHONE SET CONNECTIONS						
COMPONENT	WIRE COLOR	TB2	COMPONENT	WIRE COLOR	TB2	
	G	1		BR	11	
	W	4		BR	9	
	R	3		0	9	
70A (MD)	R-G	2		0	11	
or	BK	1	Switchhook	W	8	
70B Dial	O-BK	10		Y	3	
	O-R	5		G	12	
	W-BL	7		S	12	
	O-W	10		S-W	14*	
	V	13		R	12	
	W	7				
Handset	R	3				
	BK	6				
	W	8				

<sup>\*</sup>Terminal 14 appears on new 61A coin dial units only

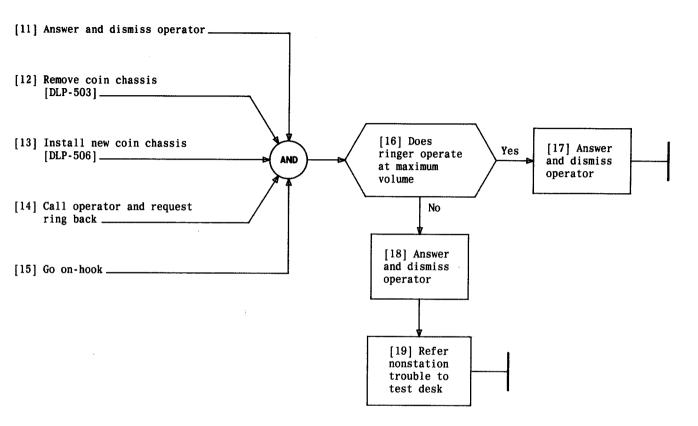
Issue 2	AUG	1980
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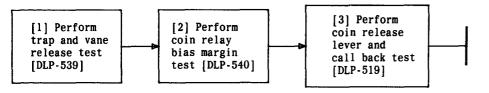
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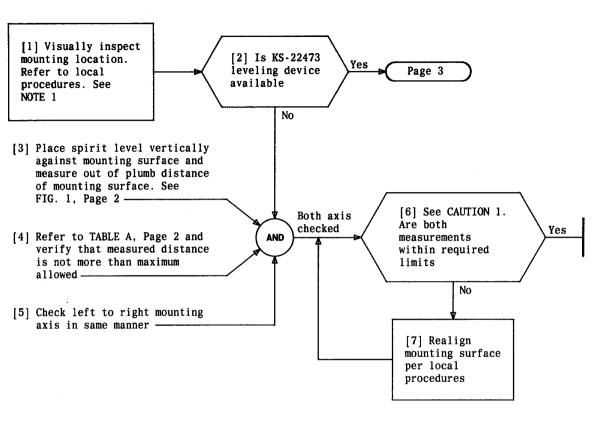
Issue 2	AUG 1980
506-410-4	IO2 TAP
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506-410-4	TAP	
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506-410-4	102	TAP
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NOTE 1 Considerations for locating

- A. Protection of drop and/or inside wires.
- B. Visibility,
  accessibility, and
  possible accident
  hazards in
  selecting
  locations.
- C. Mounting
  surfaces coin
  telephone set
  should not be
  located on
  finishes that
  would be expensive
  to repair if set
  is removed.
- D. Inductive
  effects set and
  associated wiring
  must be at least
  6 inches from neon
  fixtures,
  transformers, or
  other interferencecausing equipment.

CAUTION 1
A tilt greater
than 1-1/2
degrees in any
direction can
cause coin chute
malfunction

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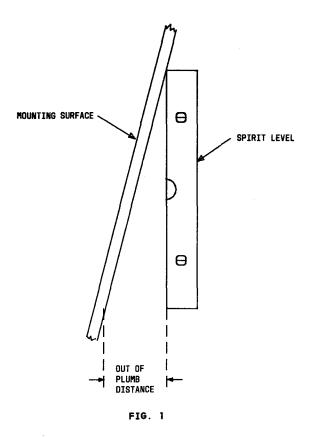
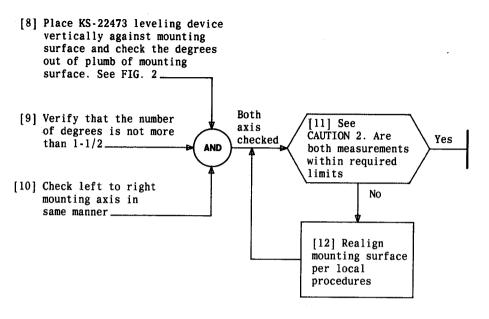


TABLE A				
METHOD OF DETERMINING A VERTICAL SURFACE				
SPIRIT MAXIMUM ALLOWABLE LEVEL DISTANCE OUT LENGTH OF PLUMB				
18 inches	15/32-inch			
24 inches	5/8-inch			
30 inches	25/32-inch			
36 inches	15/16-inch			

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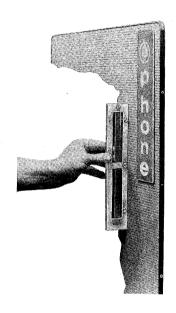
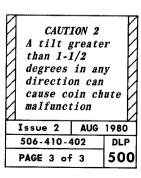
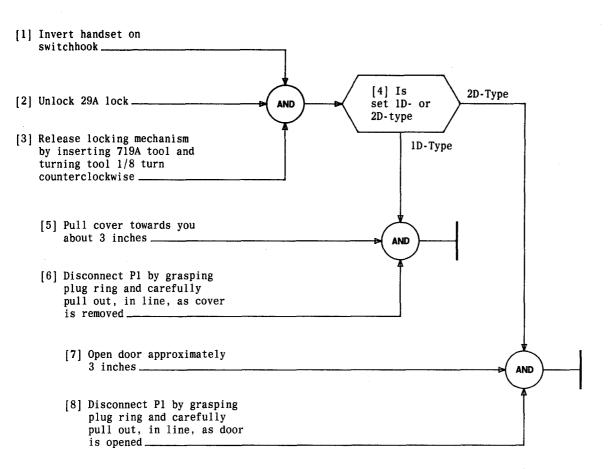


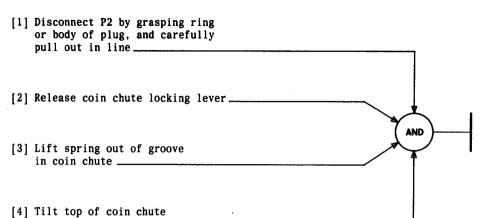
FIG. 2





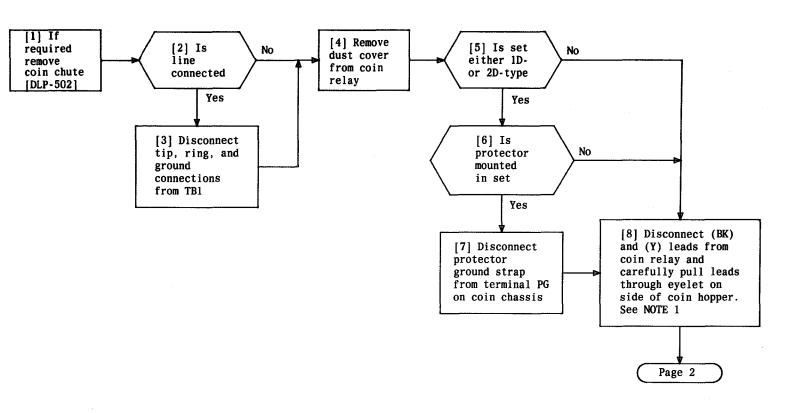
REMOVE COIN COVER UNIT (1D-TYPE SET) OR OPEN DOOR AND FACEPLATE ASSEMBLY (2D-TYPE SET)

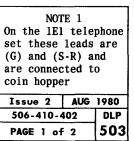
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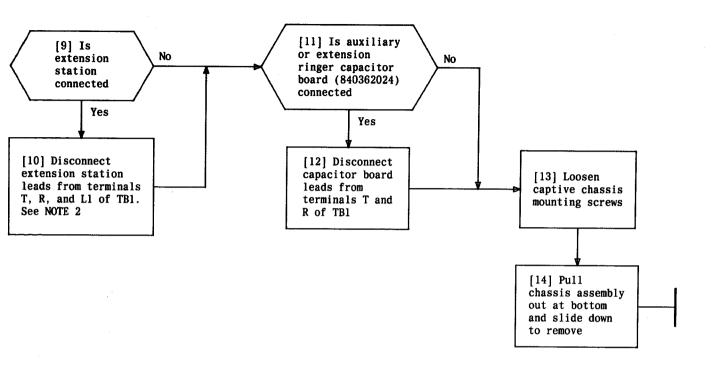


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forward and lift out\_\_\_\_\_







NOTE 2
Terminal L1 is on network in the 1C- and 2C-type telephone sets

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[1] Insert inside wire or drop wire and 12 AWG protector ground wire into wire entrance hole. See FIG. 1, Page 2 \_\_\_\_\_ [2] Insert four security studs (furnished locally) into back of housing. See FIG. 1 and TABLE A, Page 2\_\_\_\_\_ [3] Place housing on mounting surface by guiding security studs into proper holes \_ [4] Secure housing to mounting surface using seven mounting screws (furnished with set) and 1/4 ID flat washer

(provided locally). See FIG. 1 and TABLE A, Page 2

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TABLE A						
	SECURITY STUDS (4 REQUIRED)			SECURITY STUDS (4 REQUIRED)		
BACKBOARD*, BOOTH, SHELF, MOUNTING, OR KIOSK	834080608 (P-40Y060) (SHORT SHOULDER- SHORT THREAD)	834080616 (P-40Y061) (LONG SHOULDER- SHORT THREAD)	BACKBOARD*, BOOTH, SHELF, MOUNTING, OR KIOSK	834080608 (P-40Y060) (SHORT SHOULDER- SHORT THREAD)	834080616 (P-40Y061) (LONG SHOULDER- SHORT THREAD)	
178A-03 or -51 Backboard	•		KS-19425 Booth		•	
KS-21676, L2 Backboard	•		KS-19426 Mounting		•	
10- and 11- Type Booths	•		KS-19580 Booth	•		
KS-14611 Booth	•		KS-19945 Shelf		•	
KS-16797 Booth		•	KS-20194, L5 Shelf	•		
KS-19206 Booth	•		KS-20255 Kiosk (MD)		•	
KS-19267 Shelf	•		KS-20842 Mounting	•		
KS-19340 Booth	•					

<sup>\*</sup> Seven 1/4-20 by 5/8-inch hardened RHM screws 812367902 (P-23F790) are furnished with each coin telephone set for mounting to backbaord

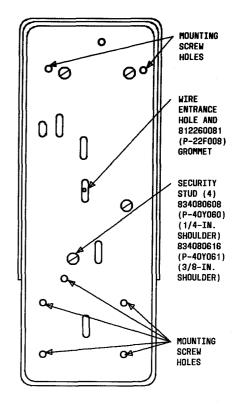
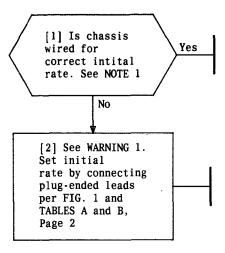


FIG. 1 — Location of Mounting Screw Holes and Security Studs in 1D-Type Set

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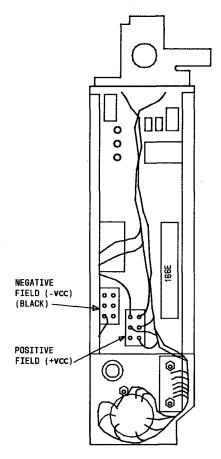
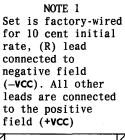


FIG. 1 - 32A Coin Chassis



## WARNING 1 The wires can be broken if grasped by the wire instead of plug

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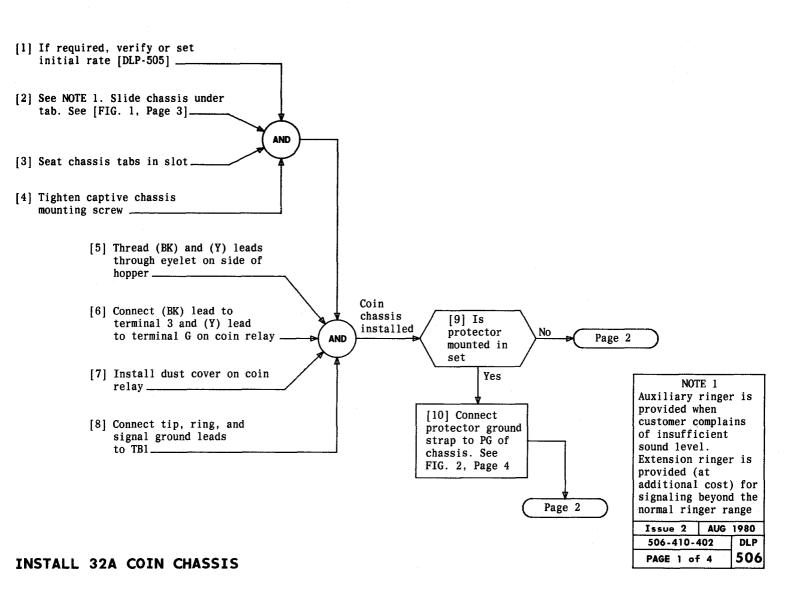
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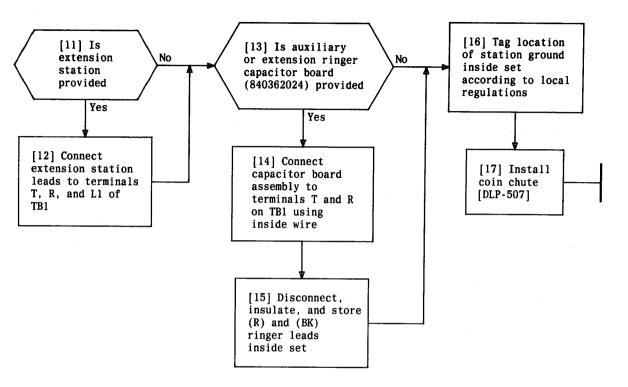
	TABLE A		
INI	INITIAL RATE LEADS*		
LEAD COLOR	INDICATED RATE		
(BR)	5 cents		
(R)	10 cents		
(Y)	20 cents		
(S)	40 cents		
(W-BL)	80 cents		
(W-BR)	1 dollar - 60 cents		
* Leads	are pluged-ended		

		TAB	LEB			
EXAMPLES OF INITIAL RATE SETTINGS						
AMOUNT OF INITIAL RATE	PLUG-ENDED LEADS TERMINATED IN  - NEGATIVE AND + POSITIVE FIELDS					
(CENTS)	(BR)	(R)	(Y)	(S)	(W-BL)	(W-BR)
5	-	+	+	+	+	+
10	+	_	+	+	+	+
15	-	_	+	+	+	+
20	+	+	_	+	+	+
25	_	+	_	+	+	+
30	+	-	-	+	+	+
35	-	_	- I	+	+	+
40	+	+	+	-	+	+
45	-	+	+	-	+	+
50	+	_	+	_	+	+
*		·	e	tc		
* If hi	gher in	nitial	rates	are ne	cessar	у,

<sup>\*</sup> If higher initial rates are necessary, plug leads into negative field to equal total amount

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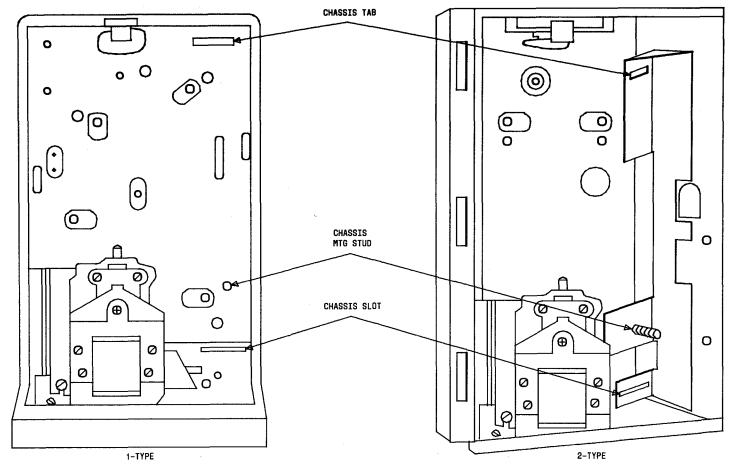


FIG. 1 — Housing and Mounting Plate Assembly

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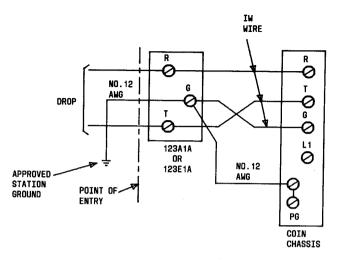


FIG. 2 - Protector Wiring When
Protector is Inside Set

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[1] See WARNING 1. Swing upper plate open and clean off any foreign material adhering to coin magnets. See FIG. 1\_\_\_ [2] Place coin chute on locating pins at rear of hopper assembly and back of housing. See FIG. 2, Page 2\_\_\_ [3] See NOTE 1. Place spring in groove on coin chute . AND [4] Lock spring in place by pushing coin chute locking lever down \_\_\_

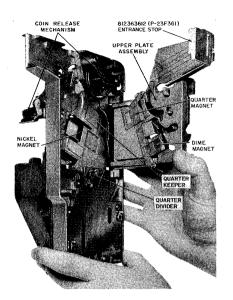


FIG. 1 - Chute

NOTE 1
Reject chute,
return chute and
coin return
assemblies must
line up properly

WARNING 1
If the quarter
divider is not
positioned
properly, it will
be damaged when
the upper plate
assembly is
closed. See
FIG. 1

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[5] Connect plug P2 to J2 \_

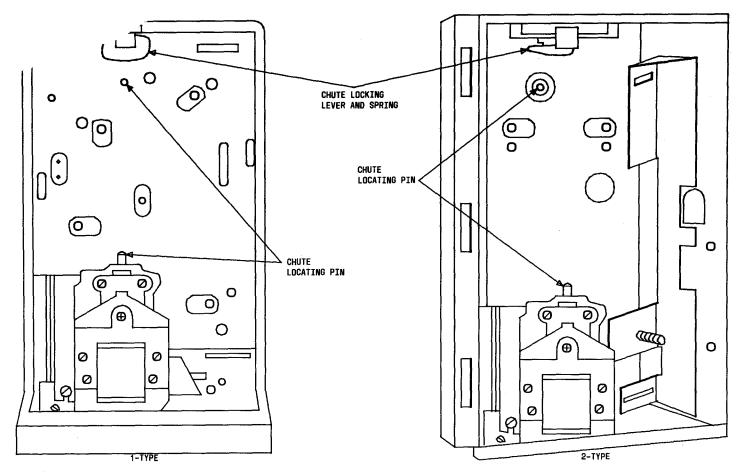
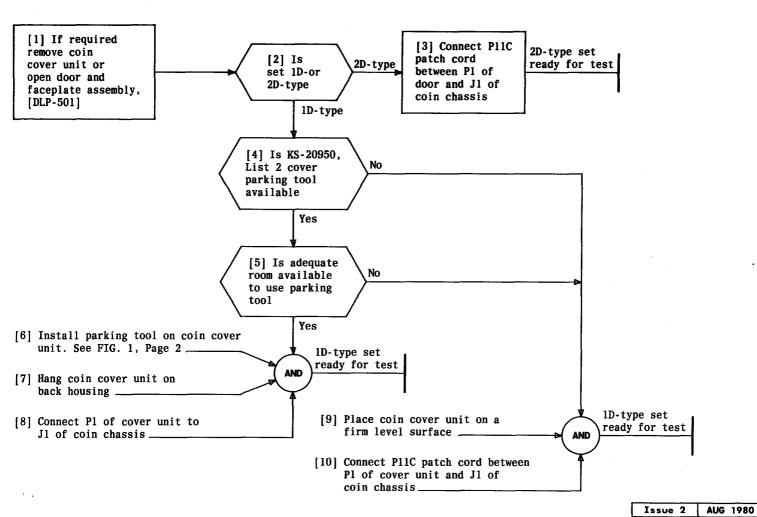


FIG. 2 — Housing and Mounting Plate Assembly

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20950, LIST 2 COVER PARKING TOOL

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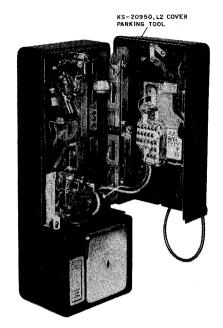
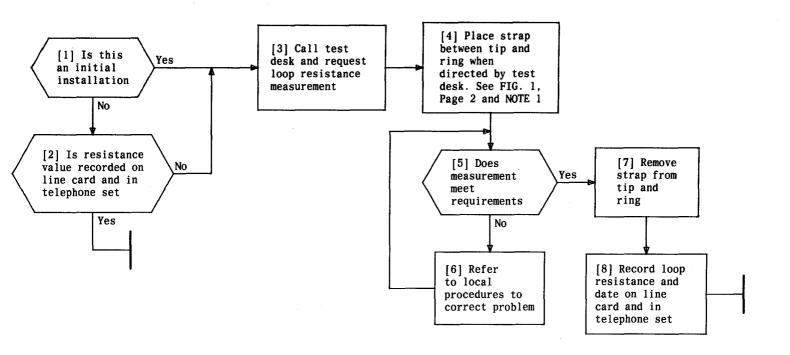
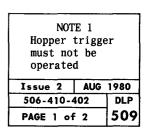


FIG. 1 — 1D-Type Coin Telephone Set With Parking Tool Installed

INSTALL KS-20950, LIST 2 COVER PARKING TOOL OR P11C PATCH CORD

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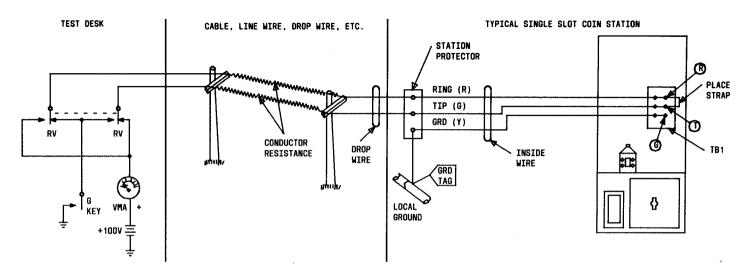
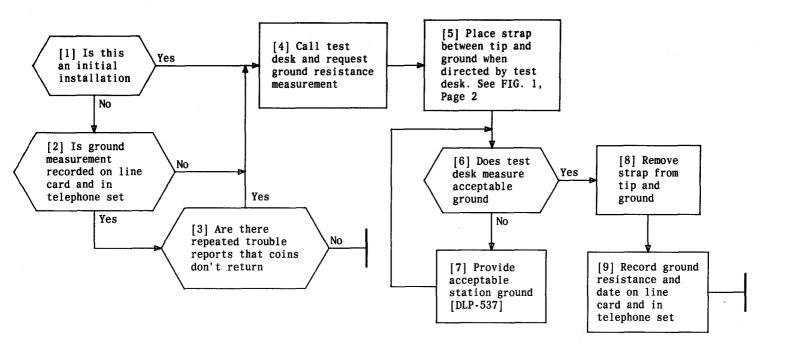


FIG. 1 - Loop Resistance Measurement

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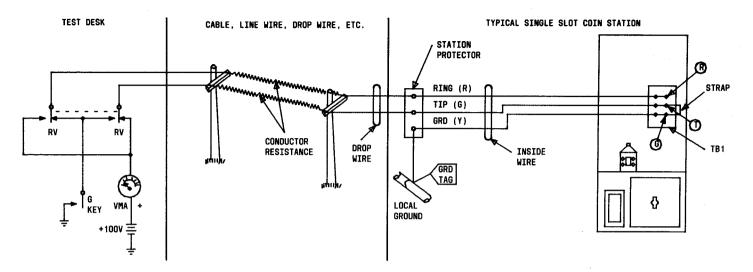
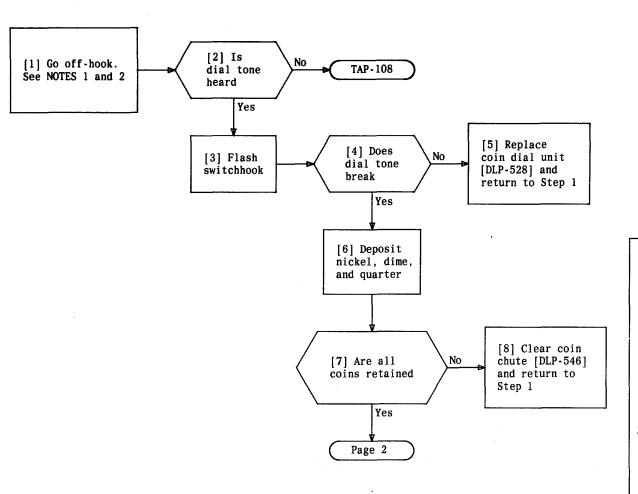


FIG. 1 — Ground Resistance Measurement

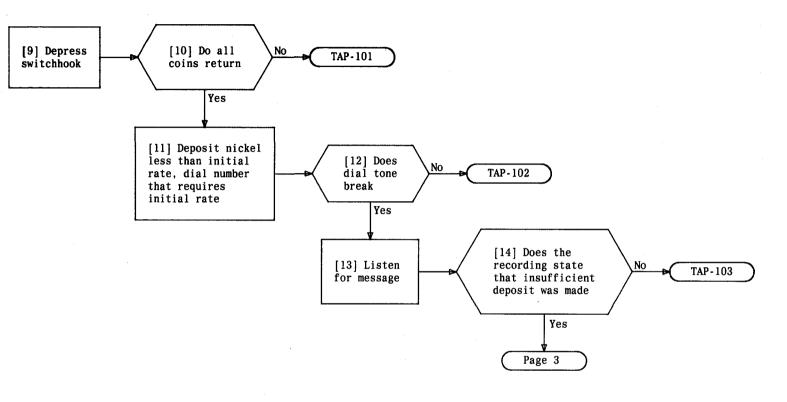
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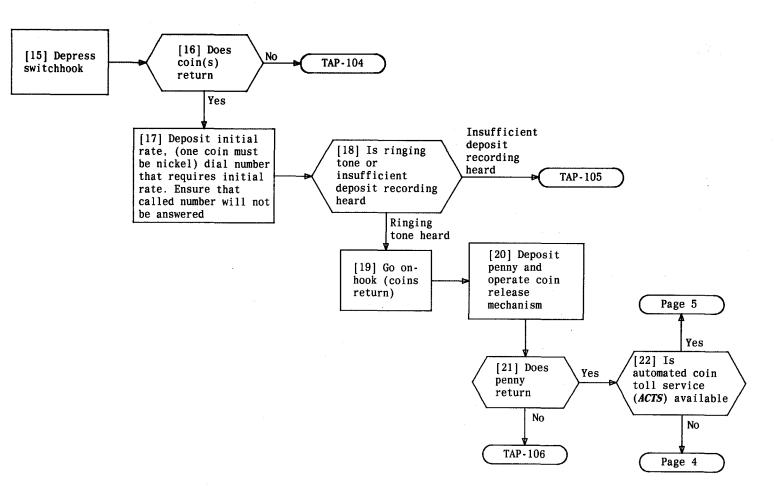
## NOTES

- 1. The serving central office must be wired for dial-tone-first and the line circuit associated with the station under test properly wired for loop start prior to performing the following test
- 2. Any time you leave this DLP to clear trouble you should always return to Step 1 and test again

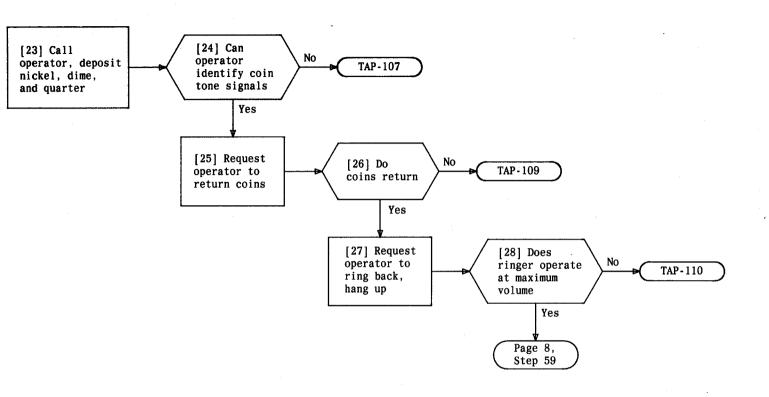
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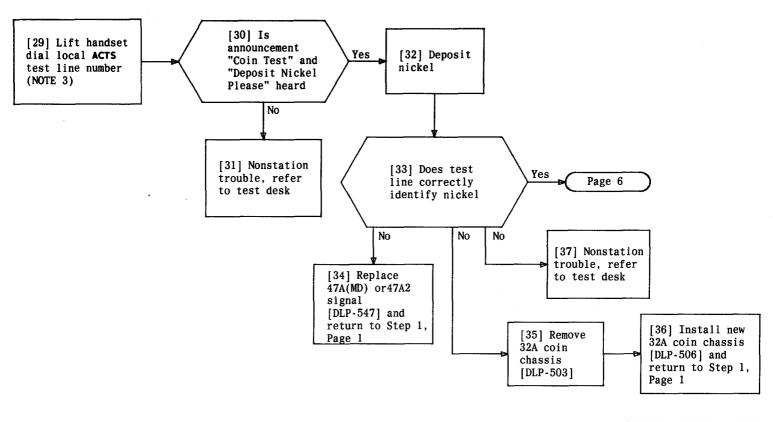
	Issue 2	AUG	1980
-	506-410-4	102	DLP
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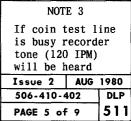


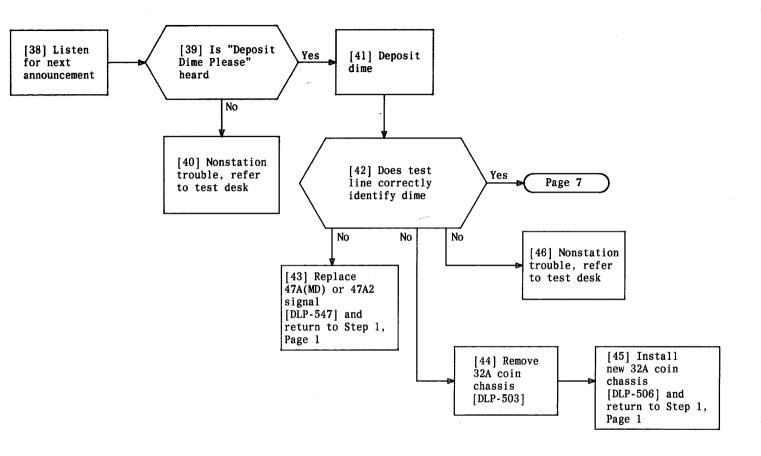
Issue 2	AUG	1980
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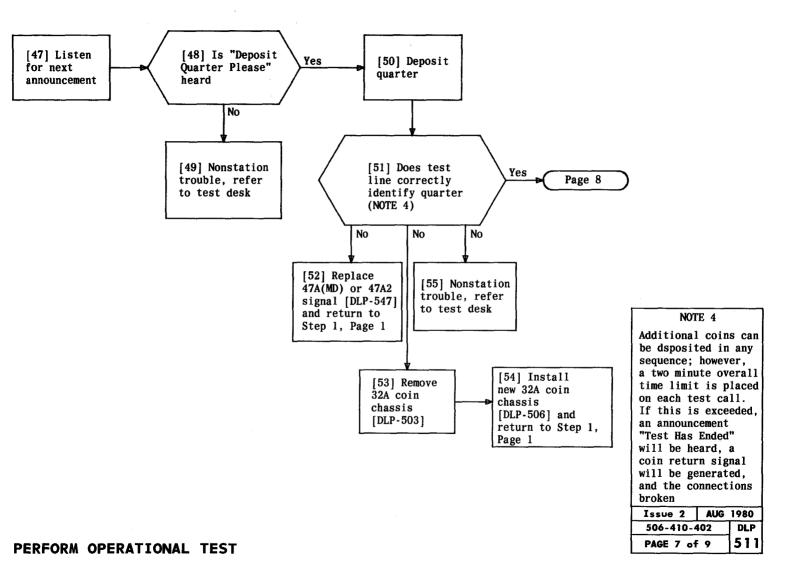
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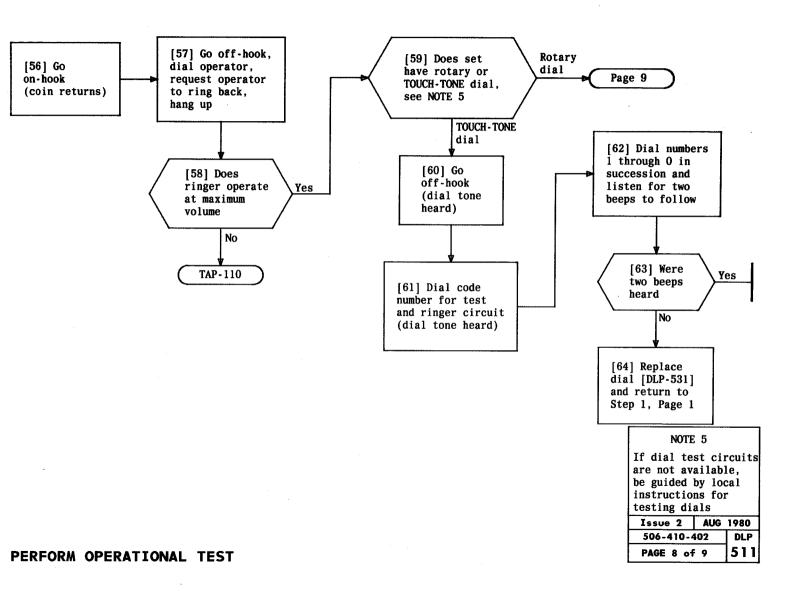






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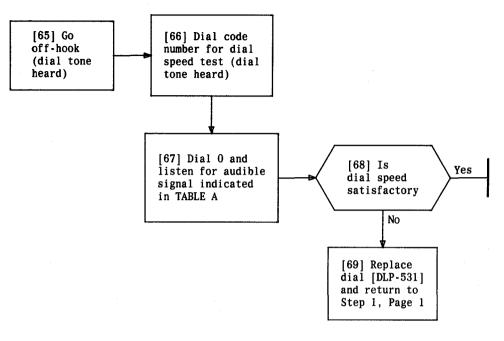
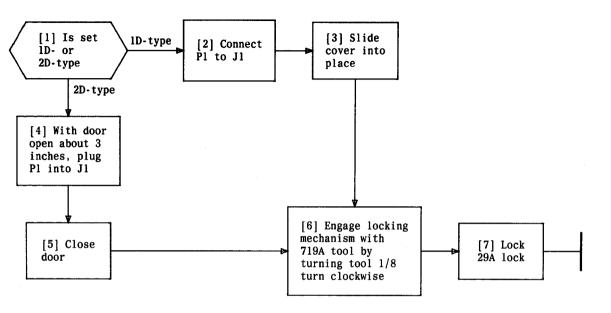


TABLE A		
AUDIBLE SIGNAL HEARD CONDITION		
Audible ringback	Dial speed satisfactory	
Rapidly interrupted dial tone	Dial speed fast	
Slowly interrupted dial tone	Dial speed slow	

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INSTALL COIN COVER UNIT (1D-TYPE) OR CLOSE DOOR AND FACEPLATE ASSEMBLY (2D-TYPE)

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1	512
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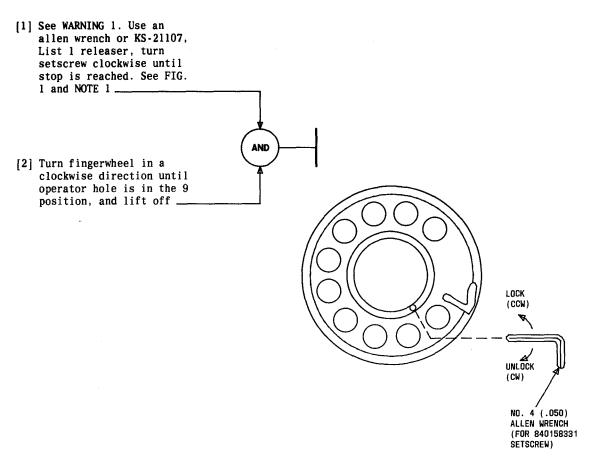
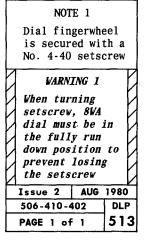
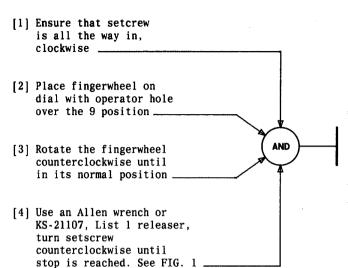


FIG. 1 — Remove Fingerwheel on 8U (MD), 8W(MD), or 8WA Dial





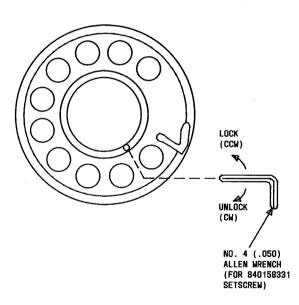
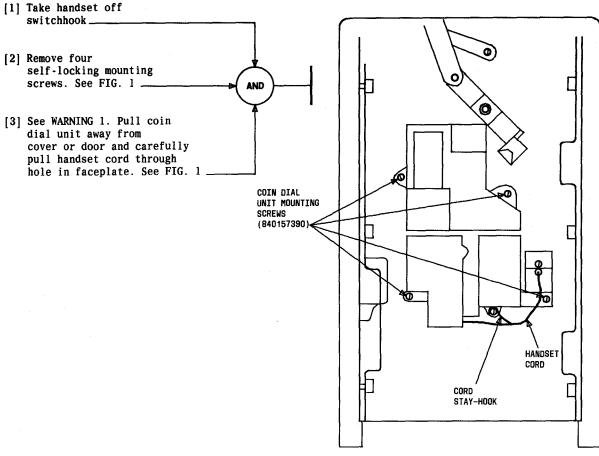


FIG. 1 — Installing Fingerwheel on 8U(MD), 8W(MD), or 8WA Dial

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WARNING 1

Armored handset cord is attached to coin dial unit

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FIG. 1 - Coin Cover Unit

DETACH COIN DIAL UNIT (1D2 OR 2D2 SET)

[1] Insert window in faceplate from rear.
See NOTES 1, 2 and FIG. 1

[2] Insert number card in window. See FIG. 2, Page 2

[3] Secure window and number card using card holder bracket and two thread forming nuts. See FIG. 3, Page 2

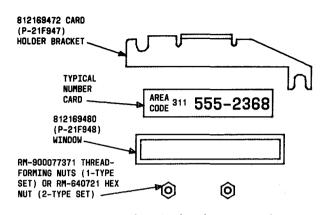


FIG. 1 — Number Card and Associated Hardware (TOUCH-TONE Set)

NOTES	
1. Number card	
furnished locally	,
2. Card holder	
bracket, window,	
and (2) nuts are	
packaged	
separately and	
shipped from the	
factory in the	
cash compartment	
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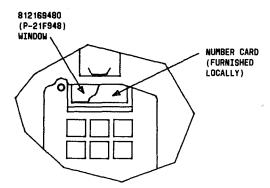


FIG. 2 — Window and Number Card Installed in Faceplate (TOUCH-TONE Set)

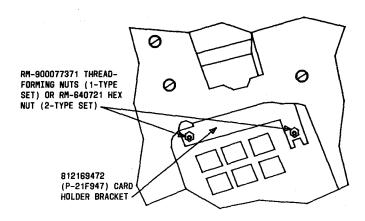
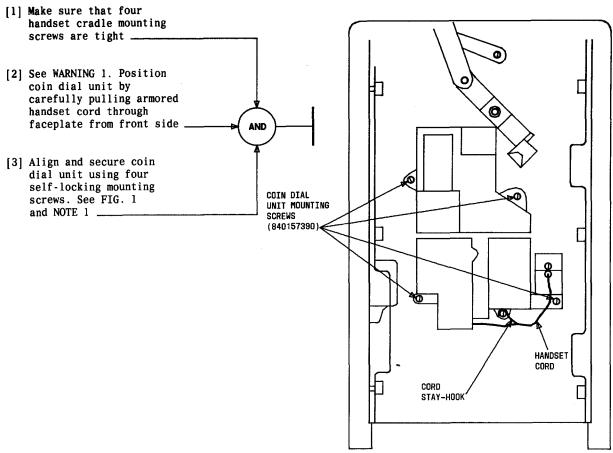


FIG. 3 — Card Holder Bracket Installed (TOUCH-TONE Set)

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- 1	loose due vibration	to	
	WARN.	ING 1	
K	Armored		1.2
K	cord is		
	to coin	dial	uni t
	Issue 2	AUG	1980
	506-410-4	102	DLP
	PAGE 1 of	: 1	517

FIG. 1 - Coin Cover Unit

NOTE 1 Coin dial unit

mounting screws must

be tight to prevent unit from becoming

SECURE COIN DIAL UNIT (1D2 OR 2D2 SET)

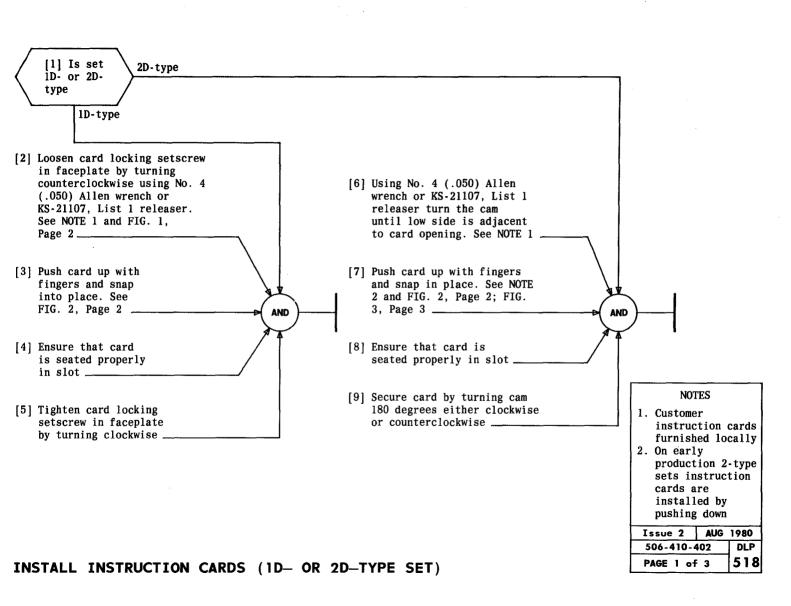




FIG. 1 - Loosening or Securing
Instruction Cards
(Current Production Sets)



FIG. 2 — Installing Instruction Cards (All 1-Type and Current Production 2-Type)

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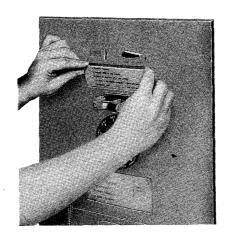
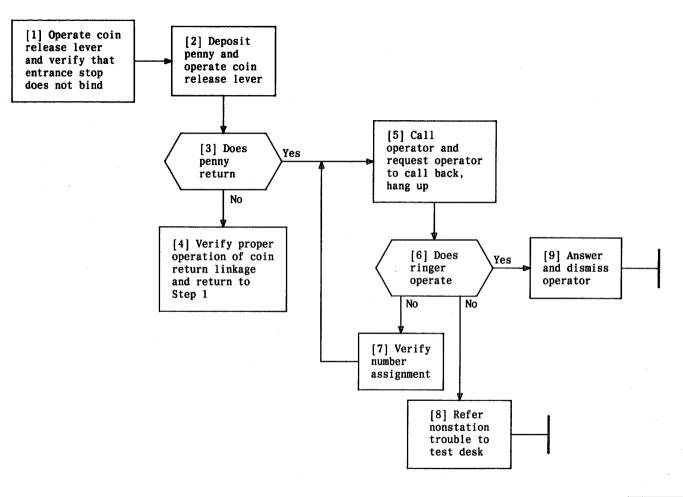
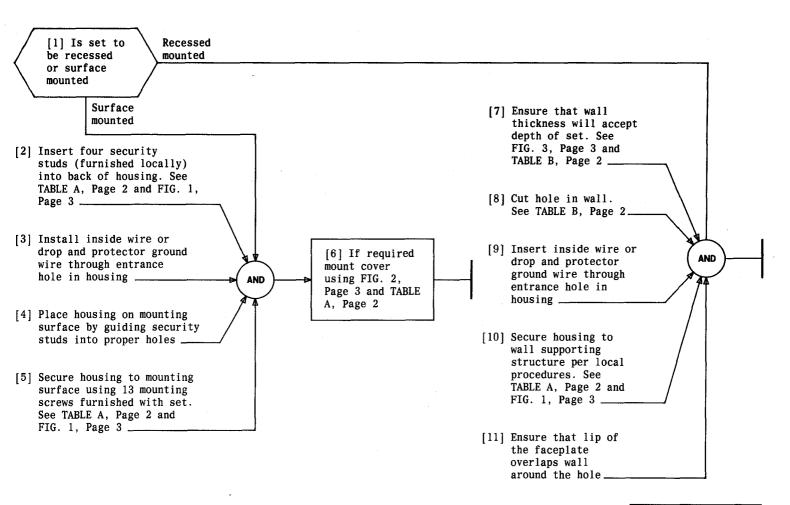


FIG. 3 — Installing Instruction Cards
In Early Production 2-Type
Set

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TABLE A					
	MOUNTING OF 2D-TYPE SET †				
	SECURITY STUD	S (4 REQUIRED)			
BOOTH, SHELF, OR MOUNTING	834080608 (P-40Y060) (SHORT SHOULDER- SHORT THREAD)	834080616 (P-40Y061) (LONG SHOULDER- SHORT THREAD)	COVER REQUIRED*		
KS-19206 Booth	•		127B FIG. 2		
KS-19340 Booth	•		127B FIG. 2		
KS-19426 Mounting		•	KS-19426, List 34 Top Assembly		
KS-19442 Booth	•		127B FIG. 2		
KS-20194 Shelf	•				

<sup>\*</sup> Three No. 8-32 by 3/16 RHM screw are furnished with cover for installation † Thirteen 1/4-20 by 5/8-inch hardened RHM screws 812367902 (P-23F790) are furnished with each coin telephone set for mounting to backboard

•	TABLE B*
Height -	22-25/64 inches
Width -	16-9/64 inches
Depth -	6 inches

\* Bottom edge of cutout should be approximately 34 inches from floor for a standard coin slot height of 54 inches

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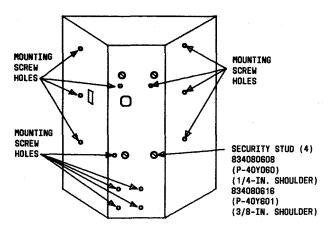


FIG. 1 — Location of Mounting Screw Holes and Security Studs In 2D-Type Set



127A - BOTTOM SIDE



127B - BOTTOM SIDE

FIG. 2 — 127A and 127B Covers

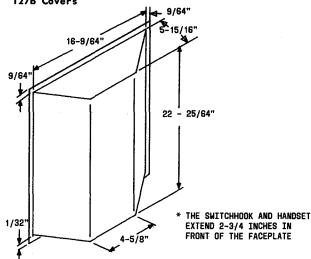
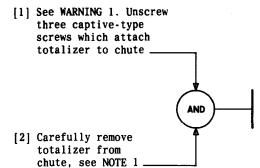
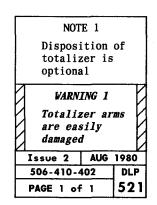
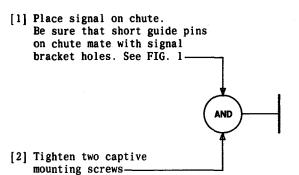


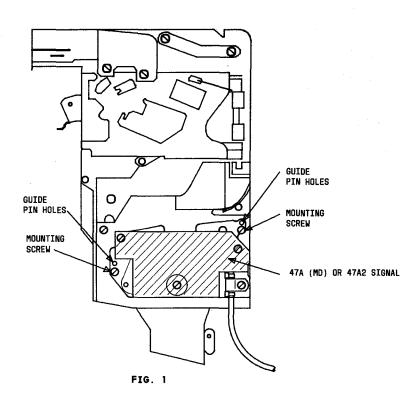
FIG. 3 — Rear View of Panel Set Showing Dimensions\*

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[1] Make
wiring changes
shown in
TABLE A or B,
Page 2

				TABL	E A					
			ROTA	RY DIAL TELEPHO	NE SET CON	NECTION	S			
		REMOVE FROM TB2		CONNECT TO TB2	w**	WIRE	REMOVE FROM TB2		CONNECT TO TB2	
COMPONENT	WIRE COLOR	1A-2A-, 1C-2C- COIN-FIRST MODE	1C-2C- DIAL- TONE-FIRST MODE	1D-2D- DIAL- TONE-FIRST MODE	COMPONENT	COLOR	1A-2A-, 1C-2C- COIN-FIRST MODE	1C-2C- DIAL- TONE-FIRST MODE	1D-2D- DIAL- TONE-FIRST MODE	
	BL	9	9	11		BR	11	11	10	
	BL or G	10	10	8	S	BR	10	10	10	
Dial	W	2	2	4	w i t c h	0	10	10	9	
	W	3	3	3		0	11	11	8	
	Y	9	*	10		W	8	8	2	
	Y	9	13	13				-		
	W	2	2	4	h	Y	3	3	7	
Handset	R	3	3	3	o o k	G	13	9	12	
Hundset	BK	6	6.	6		S	9	9	12	
	W	8	8	7		S-W	_	_	14†	
Strap	S	1 to 4	1 to 4	2 to 3		R‡	12	12	12	

<sup>\*</sup> Terminal 9 on 819042748 (P-90D274) and 840152227 dial and housing assemblies Terminal 12 on 841317241 and 841317258 dial and housing assemblies

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<sup>†</sup> Terminal 14 appears on new 60A coin dial unit only

<sup>‡ (</sup>R) Switchhook lead does not appear on 819042748 (P-90D274) dial and housing assembly

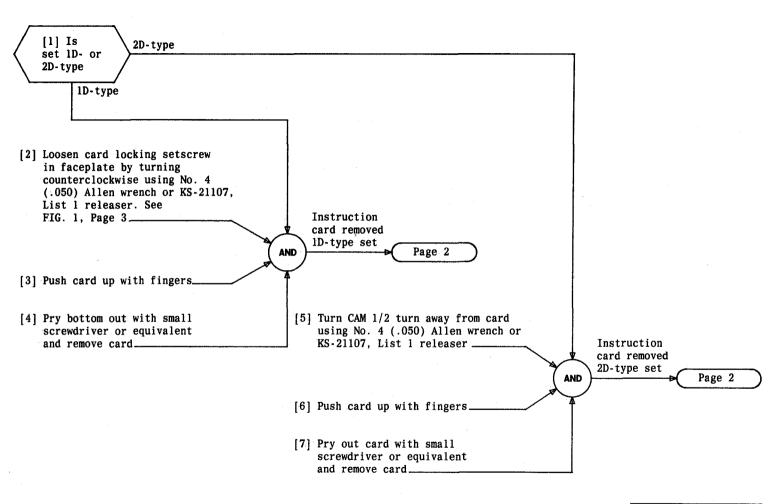
TABLE B
"TOUCH-TONE" DIAL TELEPHONE SET CONNECTIONS

<del> , . , , , , , , , , , , , ,</del>	10001-1012 DIAL (ELECTIONS DE CONTROLLOS									
	WIRE	REMOVE F	ROM TB2	CONNECT TO TB2	COMPONENT WIRE COLOR	WIDE	REMOVE FROM TB2		CONNECT TO TB2	
COMPONENT	COLOR	1A-2A-, 1C-2C- COIN-FIRST MODE	1C-2C- DIAL- TONE-FIRST MODE	1D-2D- DIAL- TONE-FIRST MODE		1A-2A-, 1C-2C- COIN-FIRST MODE	1C-2C- DIAL- TONE-FIRST MODE	1D-2D- DIAL- TONE-FIRST MODE		
	G	4	4	1		BR	11	11	11	
	W	2	2	4	s	BR	9	9	9	
	R	5	5	3	W	0	9	9	9	
70 A (MD)	R-G	6	6	2	i +	0	11	11	11	
70A(MD) or	BK	1	1	1	t c h o o	W	8	8	8	
70B	O-BK	11	11	10		Y	3	3	3	
Dial	O-R	10	10	5		5 1	G	13	9	12
	W-BL	7	7	7		S	9	9	12	
	0-W	10	* .	10	k	S-W	_	_	14†	
	v	10	13	13		R	12	12	12	
	W	7	7 .	7						
	R	3	3	3				•		
Handset	BK	5	5	6						
	W	8	8	8						

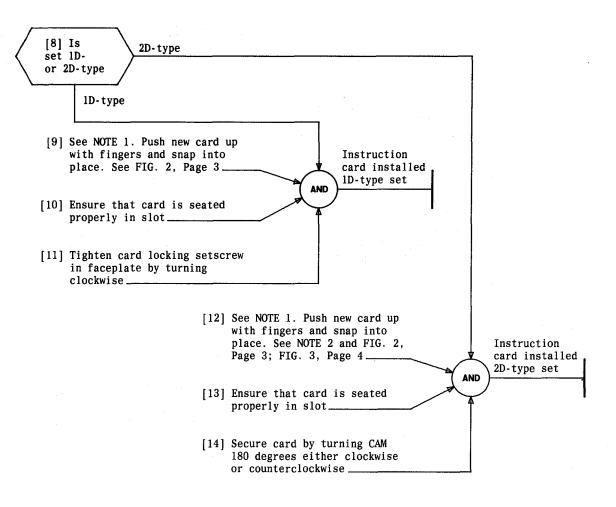
Terminal 9 on 840155402, 840155394, or 840346977 (manufactured before 8-74) dial and housing assemblies. \* Terminal 12 on 840347173, 61A, or 840346977 (manufactured after 8-74) dial and housing assemblies.

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<sup>†</sup> Terminal 14 appears on new 61A coin dial unit only



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PAGE	1	of	4	524



## NOTES 1. Customer instruction cards furnished locally 2. On eary production 2-type sets instruction cards are installed by pushing down AUG 1980 Issue 2 506-410-402 DLP 524 PAGE 2 of 4

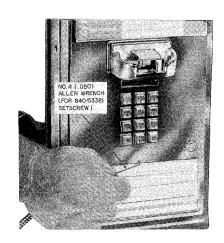


FIG. 1 — Loosening or Securing Instruction Cards (Current Production Sets)

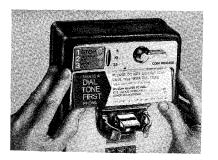


FIG. 2 — Installing Instruction Cards (All 1-Type and Current Production 2-Type Sets)

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FIG. 3 — Installing Instruction Card In Early Production 2-Type Set

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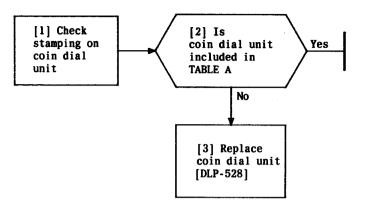
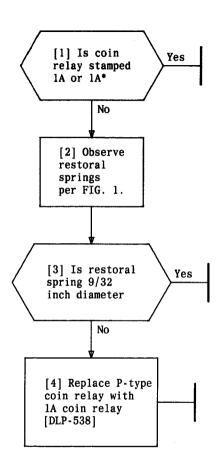


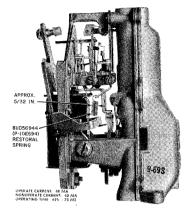
TABLE A					
COIN DIAL UNIT					
ROTARY DIAL SET "TOUCH-TONE" DIAL					
60A	61A				
841317241	840346977				
841317258	840347173				
819042748 (P-90D274)	840155402				
840152227	840155394				

VERIFY	COMPA	TIBILITY	OF	COIN	DIAL	UNIT
WITH 10	)— OR	2D-TYPE	SET			

Issue 2	AUG	1980
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## NONCOMPATABLE RELAY



## COMPATABLE RELAY

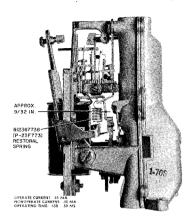
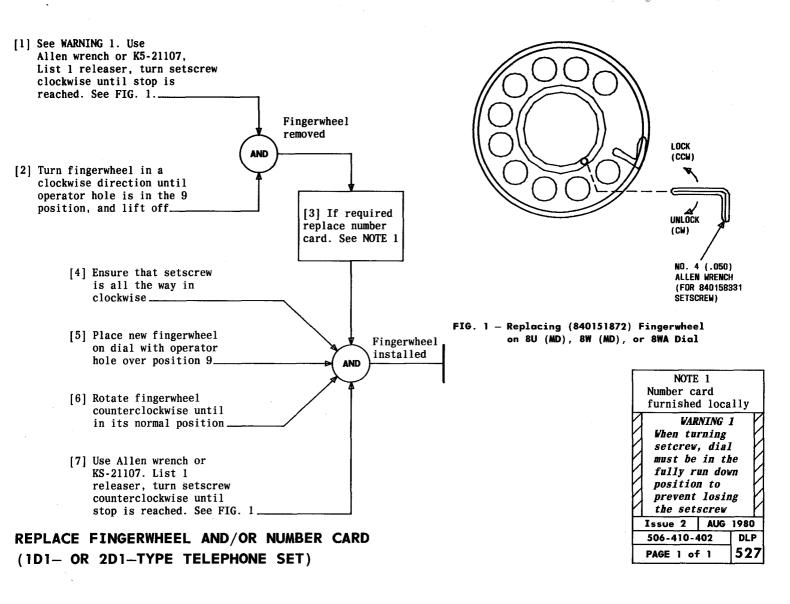
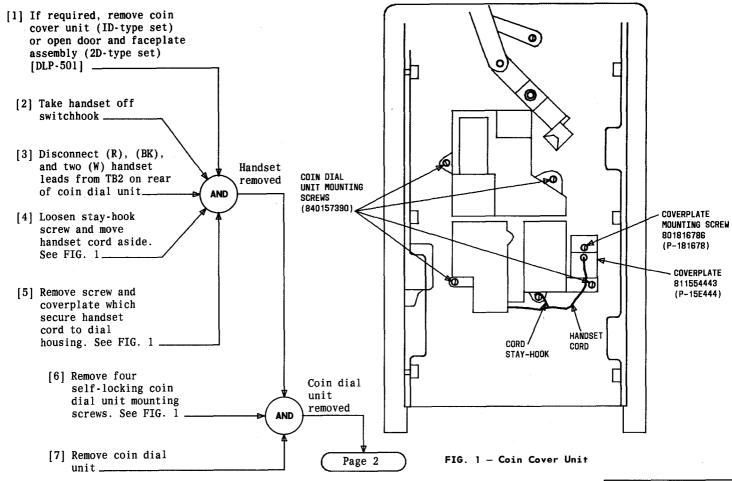


FIG. 1 - Coin Relays

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506-410-4	102	DLP
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506-410-402		DLP
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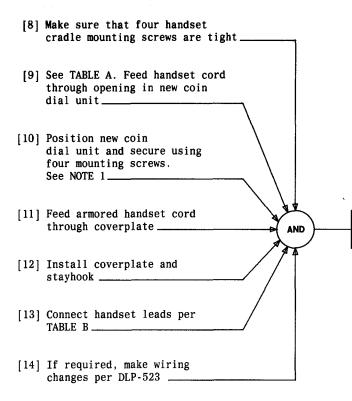


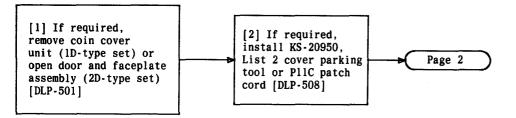
TABLE A			
COIN TEL SET COIN DIAL UNIT*			
1D1	60A3-44, 60A2-44, or 841317241		
1D2	61A3-44, 61A2-44, or 840346977		
2D1 (Brushed Stainless)	60A3-44, 60A2-44 (Chrome), or 841317241		
2D1 (Bronze)	60A3-84, 60A2-84, (Bronze), or 841317258		
2D2 (Brush Stainless)	61A3-44, 61A2-44, (Chrome), or 840346977		
2D2 (Bronze)	61A3-84, 61A2-84, (Bronze), or 840347173		

*	60A	3- or	61A3	· co:	in	dial	units
	are	pref	erred	for	re	eplac	ement

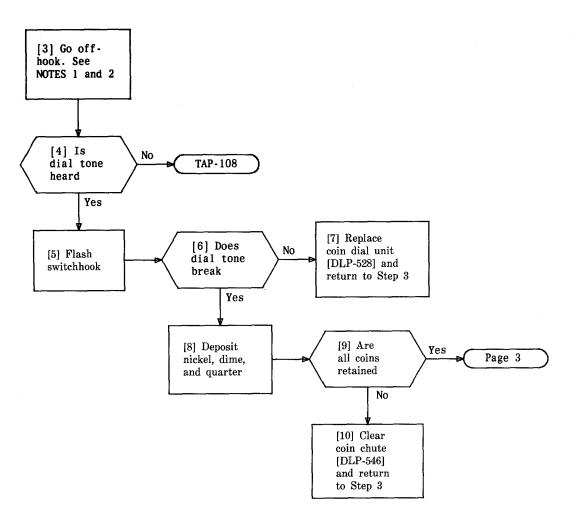
TABLE B					
COMPONENT WIRE CONNECT TO COLOR TB2					
Handset (Rotary Set)	W R BK W	4 3 6 7			
Handset (TOUCH-TONE Set)	W R BK W	7 3 6 8			

NOTE 1			
Four coin dial			
unit mounting			
screws must be			
tight to prevent			
unit from becoming			
loose due to			
vibration			
Tesue 2 AUG 1980			

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506-410	-402	DLP
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506-410-4	102 DLP
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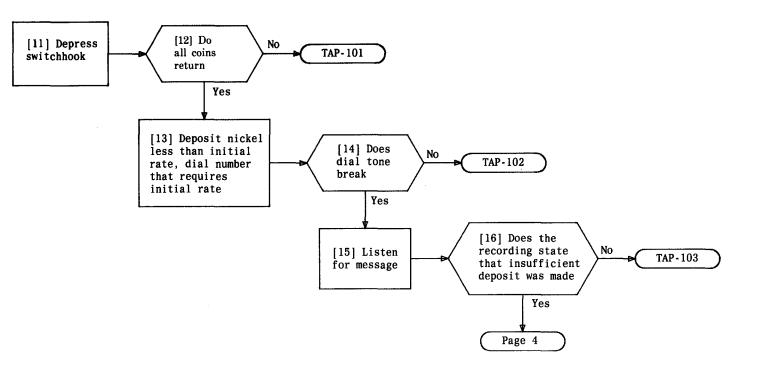


## NOTES

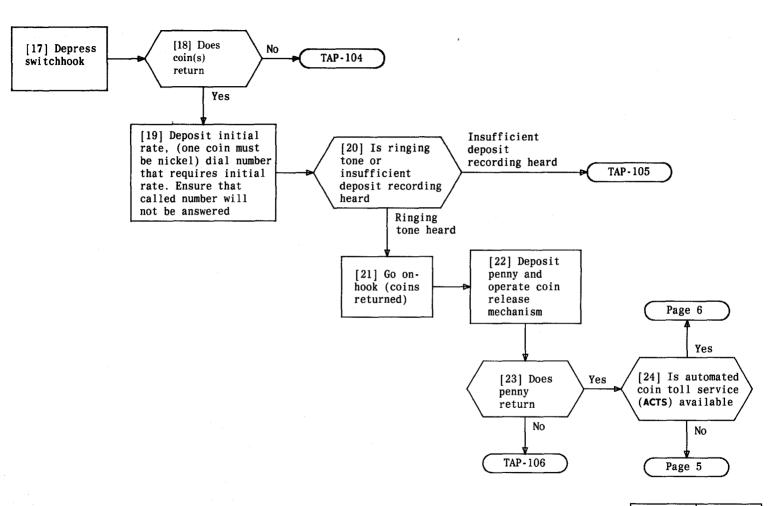
- 1. The serving central office must be wired for dial-tone-first and the line circuit associated with the station under test properly wired for loop start prior to performing the following test
- 2. Any time you leave this DLP to clear trouble you should always return to Step 3 and test again

Issue 2	AUG	1980
506-410-4	102	DLI

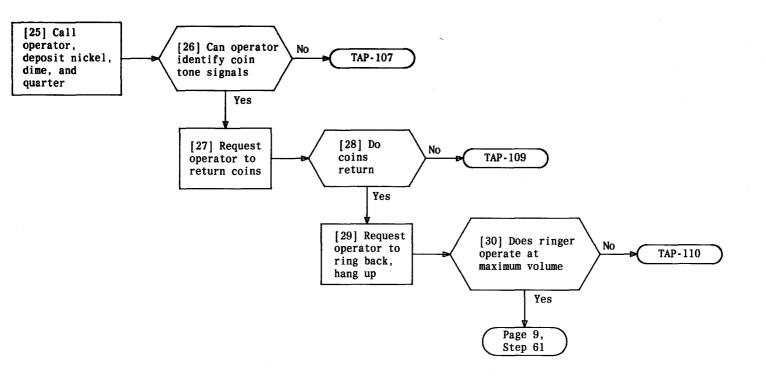
PAGE 2 of 12



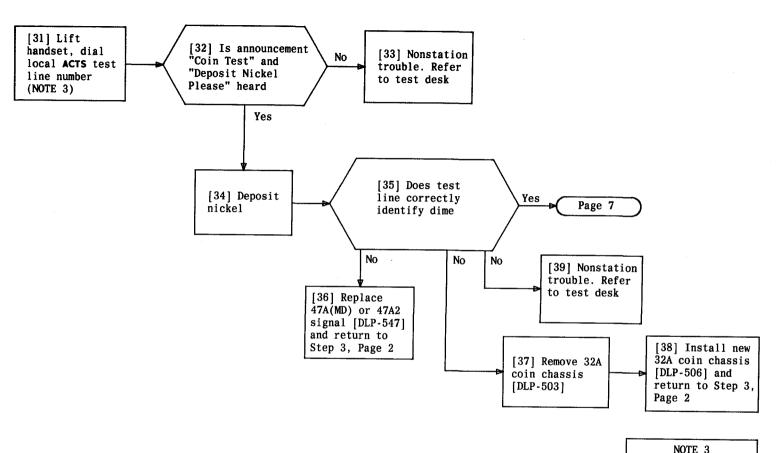
1	Issue 2	AUG	1980
	506-410-4	02	DLP
	PAGE 3 of	12	529



Issue 2	AUG	1980
506-410-402		DLP
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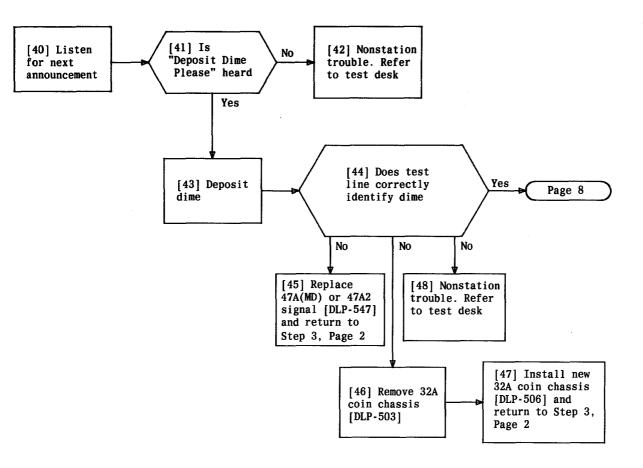


Issue 2	AUG	1980
506-410-402		DLP
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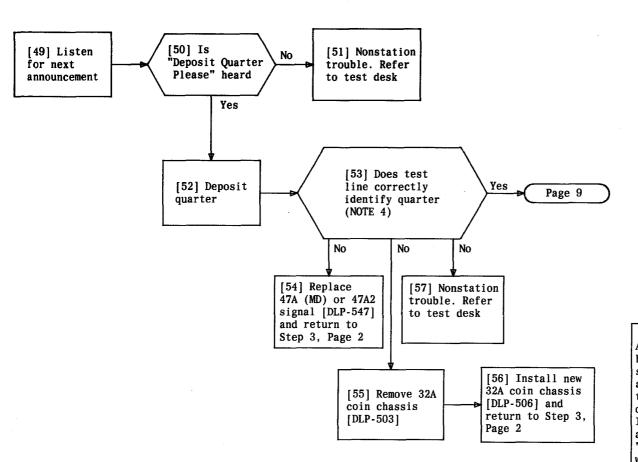


If coin test	line is
busy reorder	
(120 IPC) wi	11 be
heard	
Issue 2	AUG 1980
506-410-402	DLP
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PERFORM TROUBLE TEST

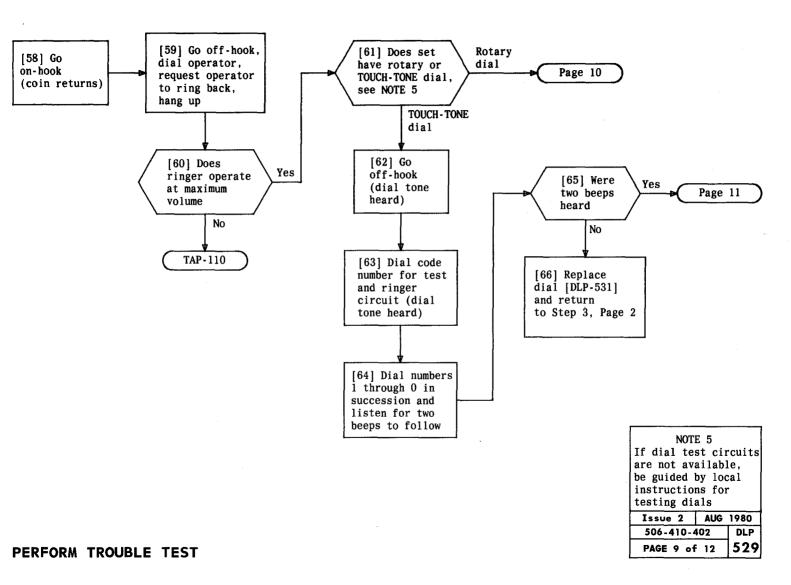


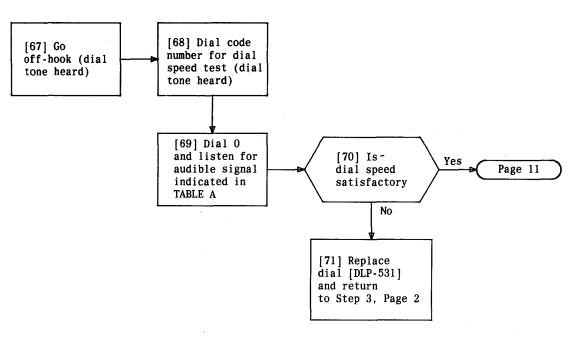
Issue 2	AUG	1980
506-410-402		DLP
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NOTE 4
Additional coins can be deposited in any sequence; however, a two minute overall time limit is placed on each test call. If this is exceeded, an announcement "Test Has Ended" will be heard. A coin return signal will be generated, and the connections broken

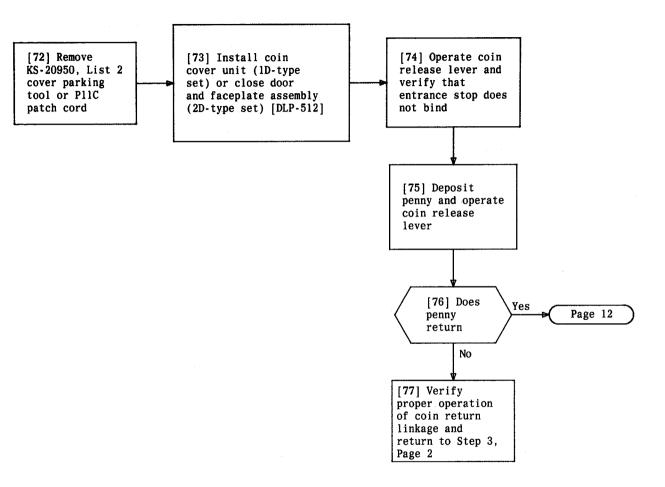
Issue 2		AUG	1980
506-410-402		DLP	
PAGE 8	of	12	529



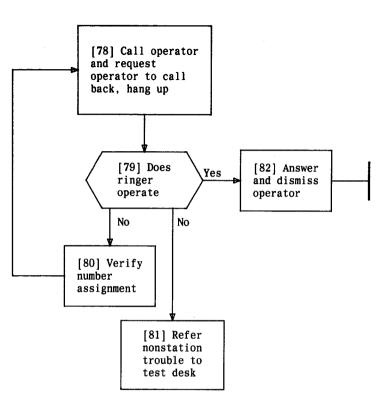


T	ABLE A
AUDIBLE SIGNAL HEARD	CONDITION
Audible ringback	Dial speed satisfactory
Rapidly interrupted dial tone	Dial speed fast
Slowly interrupted dial tone	Dial speed slow

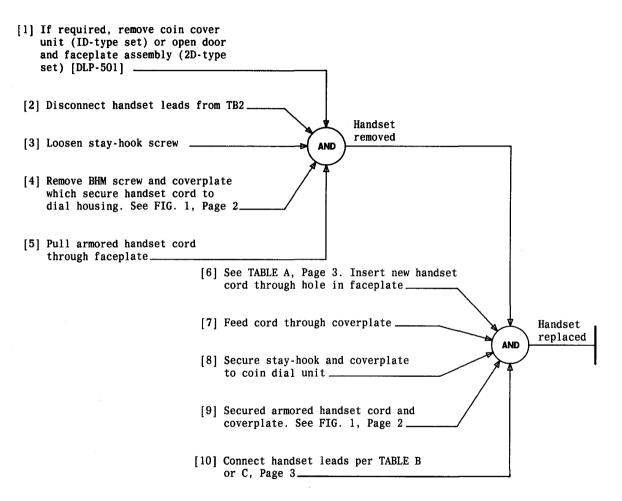
Issue	2	Π,	AUG	1980
506-4	410	- 40	2	DLP
PAGE	10	of	12	529



Issue	2	1	AUG	1980
506-4	110	-40	2	DLP
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Issue 2	AUG 1980
506-410-4	102 DLP
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506-410-4	102	DLP
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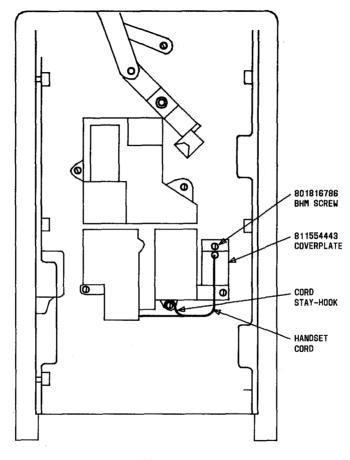


FIG. 1

Issue 2	AUG	1980
506-410-4	102	DLP
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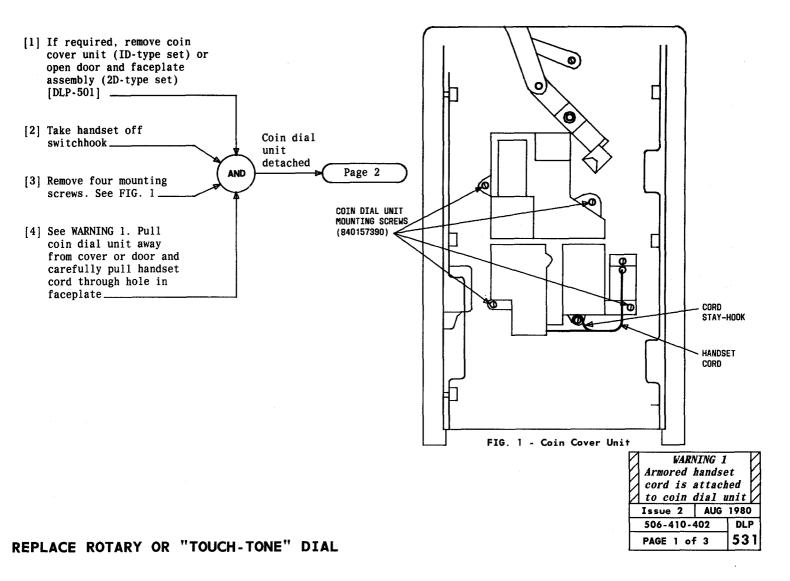
TABI	LE A
SET CODE	HANDSET* CODE
1D1/1D2 All Sets	G3AH-52 or
2D1/2D2-67	G3AK-52
2D1/2D2-84	G3AH-03 or G3AK-03

<sup>\*</sup> Standard handsets shown. A G13D amplifier handset is optional

	TABLE B	
G3AH-52 OR G3AK-52 HANDSET		
WIRE	CONINE	ст то
COLOR	ROTARY SET	"TOUCH-TONE" SET
W	TB2-4	TB2-7
R	TB2-3	TB2-3
BK	TB2-6	TB2-6
W	TB2-7	TB2-8

	TABLE	С
G13D HANDSET		
WIRE	CONNEC	т то
COLOR	ROTARY SET	"TOUCH - TONE" SET
Y	TB2-7	TB2-7
R	TB2-3	TB2-3
BK	TB2-6	TB2-6
G	TB2 - 4	TB2-8

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506-410-4	102	DLP
PAGE 3 of	3	530



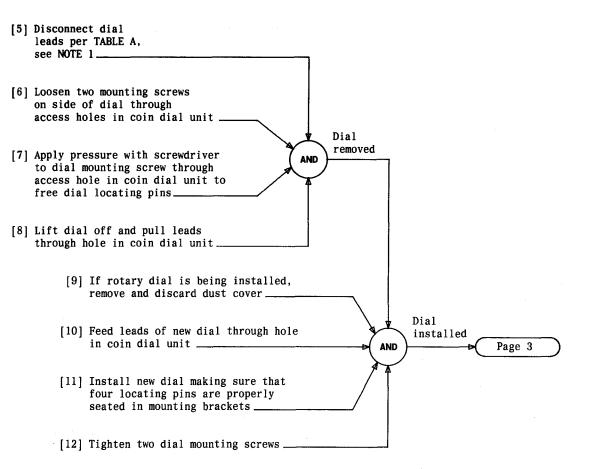
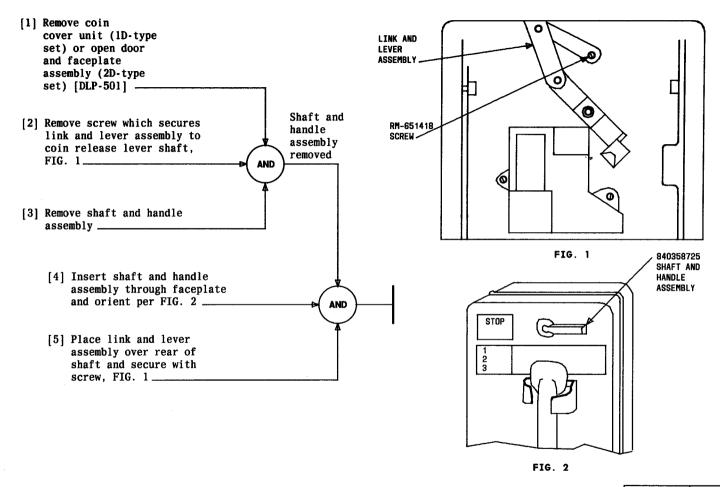


	TABLE A	
DIAL CONNECTIONS		
DIAL	WIRE	TB2
	BL	11
8U(MD), 8W(MD),	BL or G	8
or(MD),	W	4
8WA	W	3
Rotary Dial	Y	10
	Y	13
	G	1
	W	4
	R	3
70A(MD) or	R-G	2
70B	BK	1
TOUCH-	0-BK	10
TONE Dial	0-R	5
	W-BL	7
	0-W	10
	V	13

to disconnect handset when removing dial  Issue 2 AUG 1980 506-410-402 DLP PAGE 2 of 3 531	NOTE 1 It is not necess	sarv
506-410-402 DLP	to disconnect ha	andset
	7 0 110	1000
DAGE 2 . 5 2 521	Issue 2 AUG	1980
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REPLACE ROTARY OR "TOUCH-TONE" DIAL

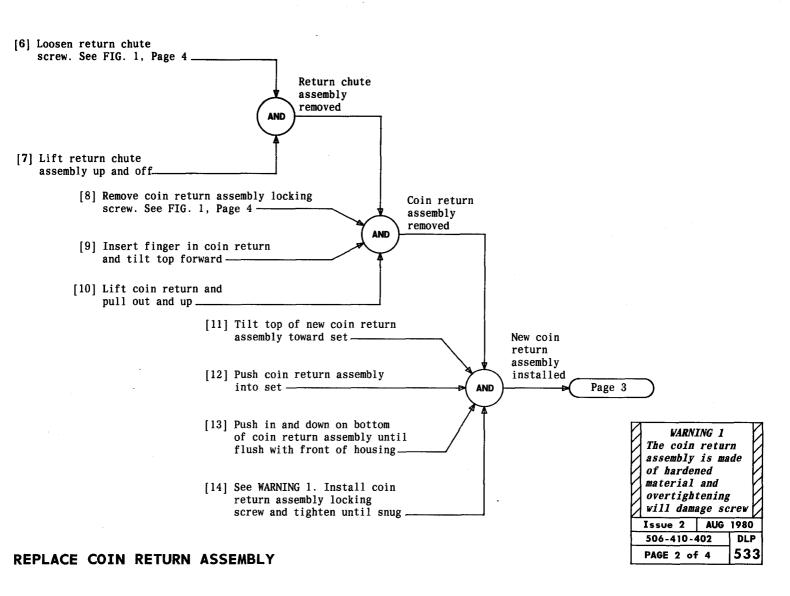


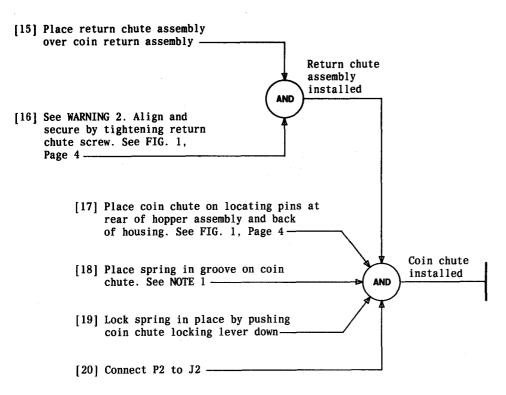
Issue 2	AUG	1980
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[1] Remove coin cover unit (1D-type set) or open door and faceplate assembly (2D-type set) [DLP-501] -[2] Disconnect P2 by grasping body of plug and carefully pull out, in line \_\_\_\_\_ Coin chute [3] Release coin chute locking removed lever. See FIG. 1, Page 4\_ AND Page 2 [4] Lift spring out of groove in coin chute \_\_\_\_\_

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[5] Tilt top of coin chute forward and lift out \_\_\_\_





NOTE 1 Reject chute, return chute, and coin return assemblies must line up properly **WARNING 2** Two tabs on right side of return chute must be seated properly on lip on left side of hopper and key-hole slot on front of return chute (plastic version only) must be completely down behind mounting screw Issue 2 AUG 1980 506-410-402 DLP 533 PAGE 3 of 4

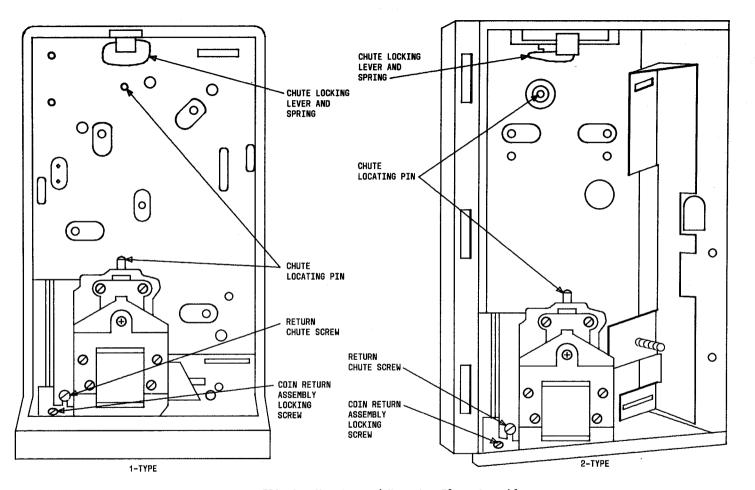
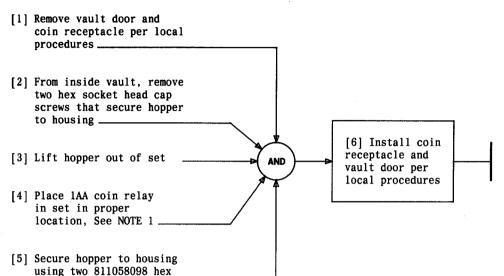


FIG. 1 — Housing and Mounting Plate Assembly

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NOTE 1
1AA coin relay consists of 1A coin relay and 811557172 (P-15E717) coin hopper assembly

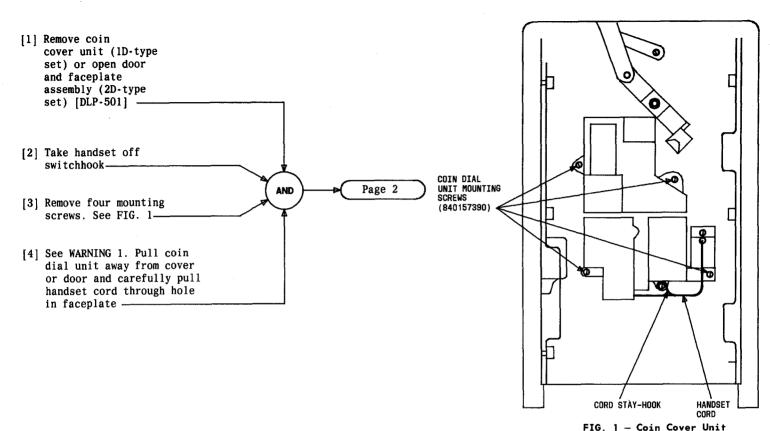
Issue 2 AUG 1980
506-410-402 DLP

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REPLACE 50A, 50B, OR 51A HOPPER ASSEMBLY WITH 1AA COIN RELAY

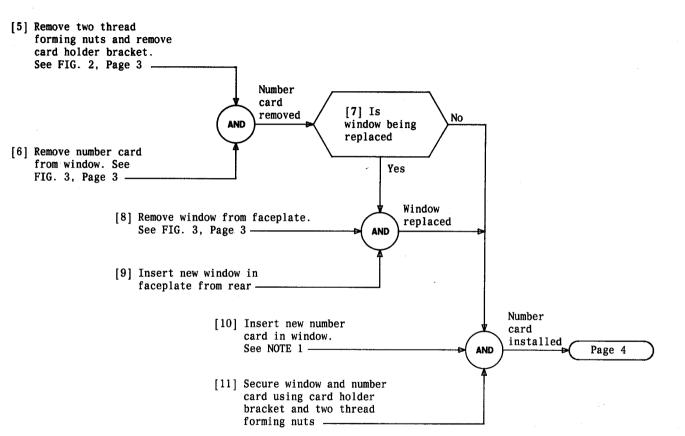
socket head cap screws\_



REPLACE NUMBER CARD AND/OR WINDOW IN "TOUCH-TONE" DIAL TELEPHONE SET

WARNING 1
Armored handset
cord is attached
to coin dial unit

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REPLACE	NUMBER	CARD	AND/OR	WINDOW	IN
"TOUCH-1	FONE" D	IAL TI	ELEPHONE	SET	

NOTE 1 Number card ordered separately		
Issue 2 AUG 1980		
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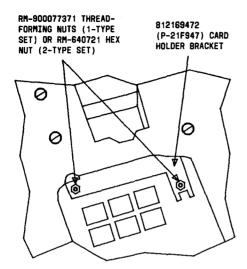


FIG. 2 — Card Holder Bracket Installed (TOUCH-TONE Set)

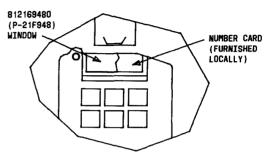
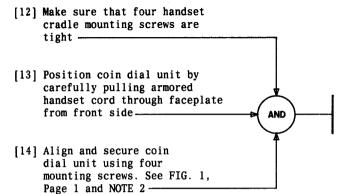


FIG. 3 — Window and Number Card Installed in Faceplate (TOUCH-TONE Set)

REPLACE	NUMBER	CARD	AND/OR	WINDOW	IN
"TOUCH-1	TONE" D	IAL TE	LEPHONE	SET	

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NOTE 2 Four coin dial unit mounting screws must be tight to prevent unit from becoming

loose due vibration	to	
Issue 2	AUG 198	0
506-410-	402 DL	Р
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REPLACE NUMBER CARD AND/OR WINDOW IN "TOUCH-TONE" DIAL TELEPHONE SET

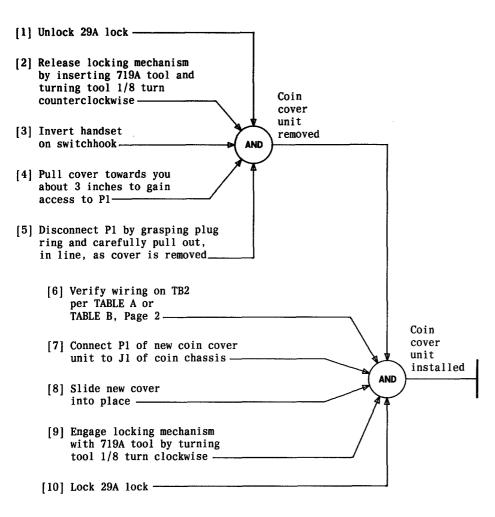


TABLE A					
ROTAL	RY DIAL TE	LEPHONE	SET CON	NECTIO	NS
COMPONENT	WIRE COLOR	TB2	COMPONENT	WIRE COLOR	TB2
	BL	11		BR	10
	BL or G	8		BR	10
Dial	W	4	Sw	0	9
Diai	W	3	i	0	8
	Y	10	t c	W	2
	Y	13	h	Y	7
	W	4	h O	G	12
Handset	R	3	0	S	12
Immuset	BK	6	k	S-W	14*
	W	7		R†	12
Strap	S	2 to 3			

- \* Terminal 14 only appears on new 60A coin dial units
- † (R) switchhook lead does not appear on 819042748 (P-90D274) dial and housing assemblies

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TABLE A					
"TOUCH-TO	NE" DIAL	TELEPHO	NE SET C	ONNECT	IONS
COMPONENT	WIRE COLOR	TB2	COMPONENT	WIRE COLOR	TB2
	G	1	Handset	BK	6
	W	4	(Contd)	W	8
	R	3		BR	11
704 (MD)	R-G	2		BR	9
70A(MD) or	BK	1	S w	0	9
70B Dial	O-BK	10	i	0	11
	O-R	5	t c	W	8
	W-BL	7	ĥ	Y	3
	O-W	10	h o	G	12
	V	13	0	S	12
Handset	W	7	k	S-W	14*
nanuset	R	3		R	12
* Terminal 14 only appears on new 61A coin dial units					

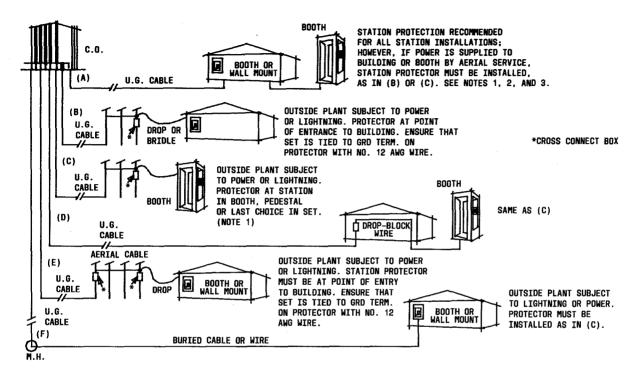
Issue 2 | AUG 1980 506-410-402 | DLP PAGE 2 of 2 | 536

[1] Select protector location. See
FIG. 1, NOTES 1, 2, and 3, Page 2

[2] Refer to FIG. 2 and NOTE 4, Page 3,
for connections when protector is
outside set

[3] Refer to FIG. 3, Page 3; FIG. 4 and
5, Page 4, for connections when
protector is inside set

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506-410-402		DLP
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## NOTES:

- 1. THE PREFERRED LOCATION FOR A PROTECTOR IS AT THE POINT OF ENTRY INTO A BUILDING OR BOOTH. A PROTECTOR SHOULD BE INSTALLED IN A SET ONLY AS THE LAST RESORT. FOR ADDITIONAL INFORMATION ON STATION PROTECTOR AND SIGNALING PROTECTOR AND SIGNALING GROUNDS, SEE SECTIONS 460-100-400, 506-100-100, AND 508-100-100
- 2. HOUSING OF ALL OUTSIDE STATIONS MUST BE GROUNDED. IF SET IF NOT MOUNTED IN A GROUNDED ENCLOSURE, RUN A NO. 12
  AMG WIRE FROM STATION TO NEAREST APPROVED GROUND
- 3. CARBON BLOCKS THAT BREAK DOWN PREMATURELY CAN CAUSE FAILURES OF COIN COLLECT OR REFUND. CARBON BLOCKS SHOULD BE REPLACED BY GAS TUBE PROTECTORS (123E1A) OR 11B1A PROTECTOR UNITS IN 123-TYPE PROTECTOR BASE.

FIG. 1 — Protection Requirements

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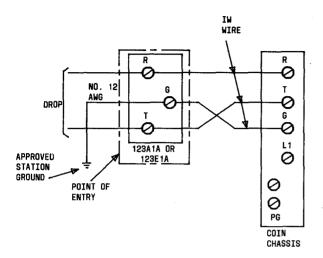


FIG. 2 - Protector Wiring When
Protector is Outside Set

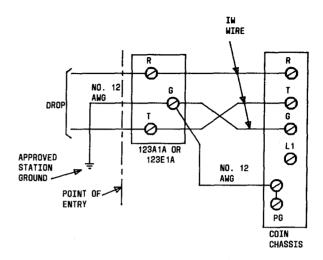


FIG. 3 — Protector Wiring When
Protector is Inside Set

NOTE 4
When wiring
protector outside of
set the maximum
length of the (Y) 22
or 24 AWG IW signal
ground is 125 feet

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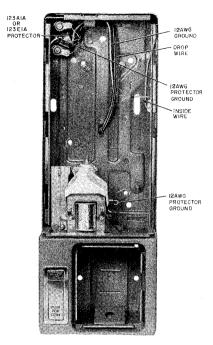


FIG. 4 - Protector Mounted in 1D-Type Set

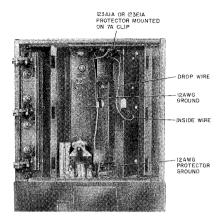
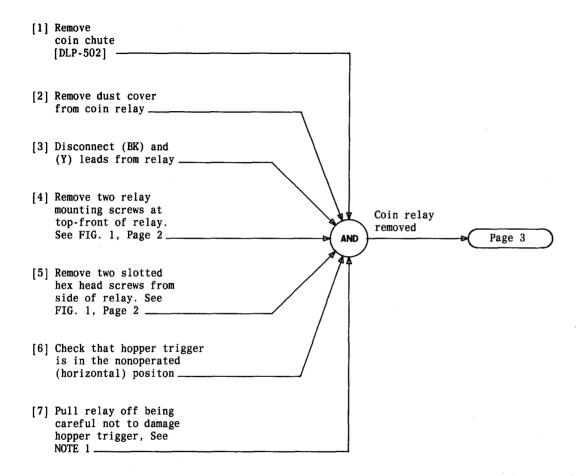


FIG. 5 - Protector Mounted in 2D-Type Set

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NOTE 1
Disposition of
defective coin
relay is optional

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REPLACE COIN RELAY

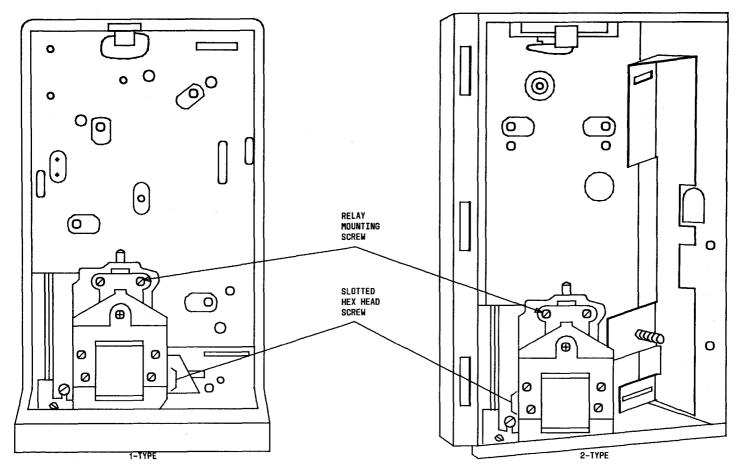
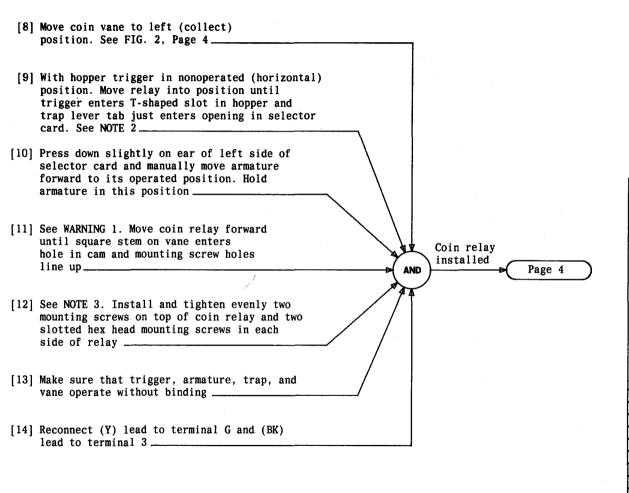


FIG. 1 — Housing and Mounting Plate Assembly

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## NOTES

- 2. If trigger support bracket is so distorted that mounting holes do not engage hopper bosses, relay should not be installed
- 3. Two top mounting screws must be tightened first so that bosses will be properly seated

WARNING 1
Stem of vane
should not be
forced into
opening in cam
without proper
alignment. Cam

can be broken very easily

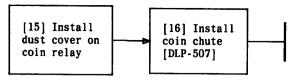
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REPLACE COIN RELAY



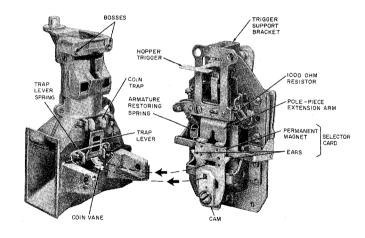
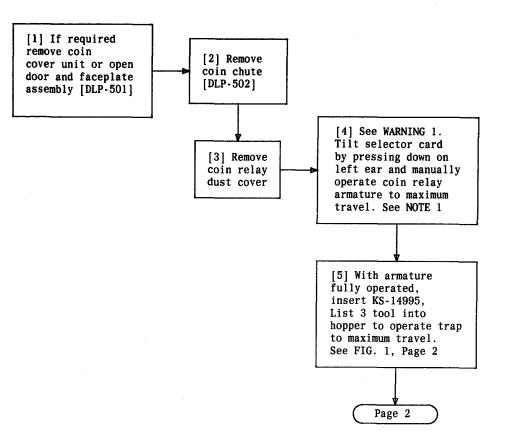
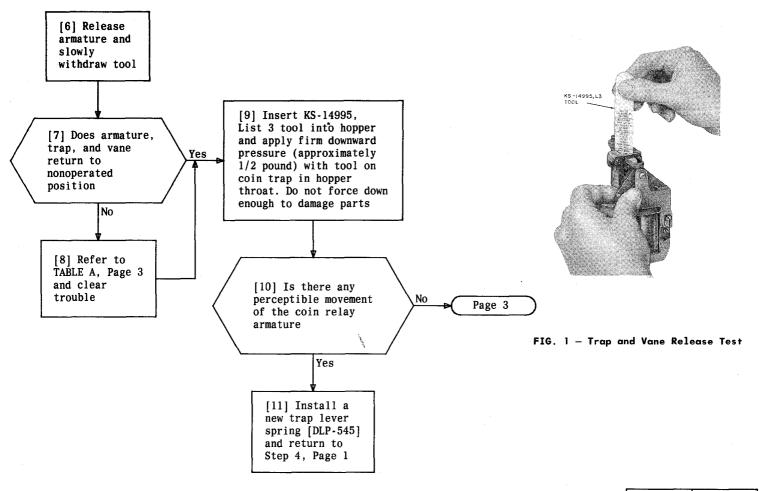


FIG. 2 - Coin Hopper and Rear View of Coin Relay

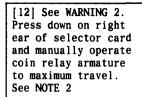
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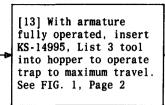






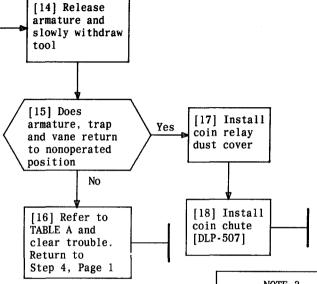
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TA	ABLE A	
TROUBL	E ANALY	SIS

INCODEL AMALISTS			
FAILURE	POSSIBLE CAUSE	REMEDIAL ACTION	PROCEDURE NUMBER
Armature, trap, or vane does not return to normal	Coin relay binding	1. Loose mounting screws, realign relay. Tighten screws	
		2. Replace coin relay	DLP-538
Vane does not restore	Vane binds or	1. Remove coin relay from hopper	DLP-541
properly	vane broken	2. Free vane or replace vane	DLP-542
		3. Install coin relay	DLP-544
Trap does not operate, restore, or	Trap broken Trap lever spring bent	1. Remove coin relay from hopper	DLP-541
lock properly	or broken	2. Replace defective	DLP-543
	Trap lever broken	apparatus  3. Install coin relay	DLP-544
	Trap pin bent or broken		

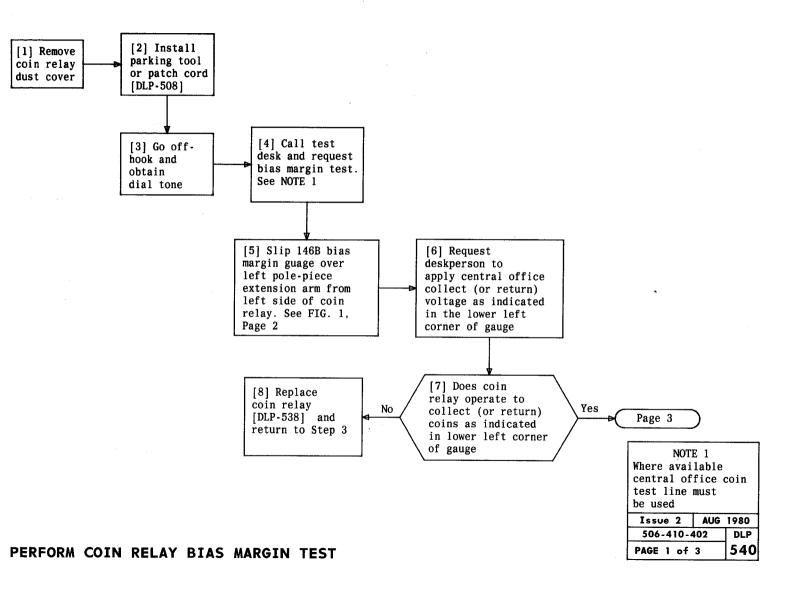


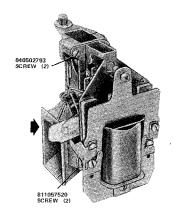
NOTE 2 Coin vane moves to refund (right) position, coin trap moves downward

WARNING 2
If selector tab
is not tilted,
jamming will
occur between
selector card and
cam engaging
surfaces

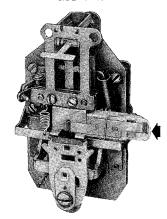
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## PERFORM TRAP AND VANE RELEASE TEST





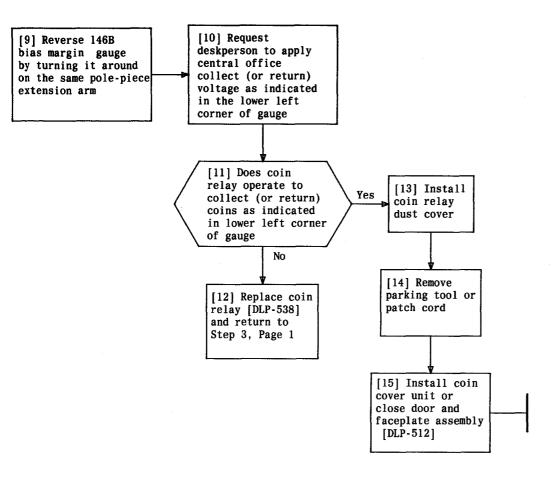
SIDE VIEW



BACK VIEW

FIG. 1 — Bias Margin Gauge In Position For Collect Test

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[1] Disconnect (BK) and (Y) leads from relay

[2] Remove two relay mounting screws at topfront of relay, see FIG. 1

[3] Remove two slotted hex head screws from
side of relay

[4] Check that hopper trigger is in
nonoperated (horizontal) position

[5] Pull relay off, being careful not to
damage hopper trigger

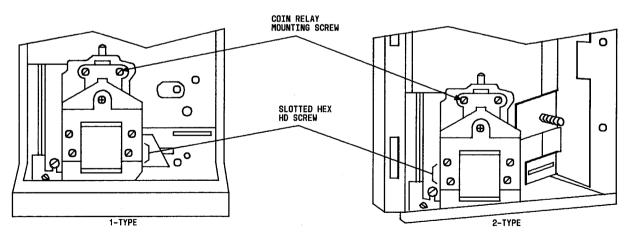
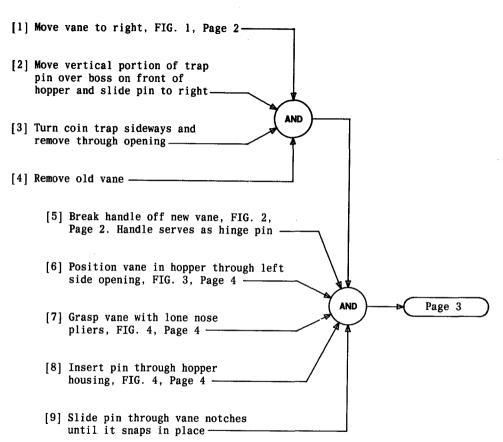


FIG. 1 — Housing and Mounting Plate Assembly

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## REMOVE COIN RELAY FROM HOPPER



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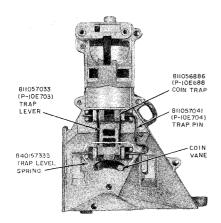


FIG. 1 - Coin Trap and Trap Lever Assembly

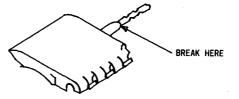
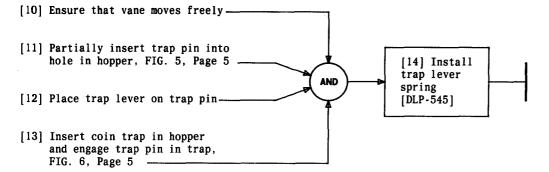


FIG. 2 - 840360572 Replaceable Coin Vane

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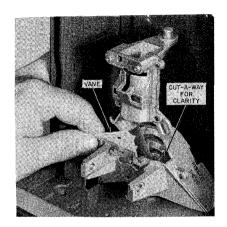


FIG. 3 — Inserting Vane

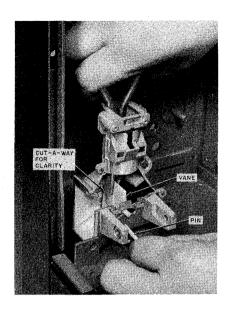


FIG. 4 — Installing Pin in Vane

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		1

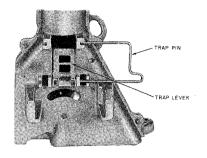


FIG. 5 — Placing Trap-Lever Pin in Hopper

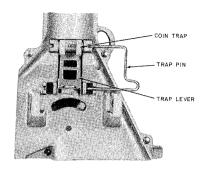
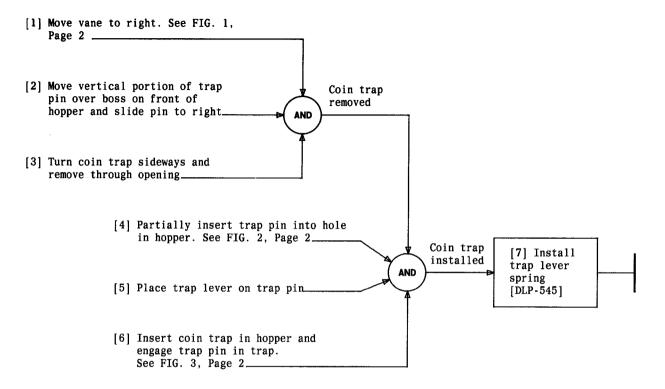


FIG. 6 — Placing Coin Trap in Hopper

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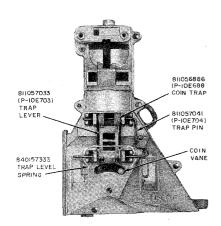


FIG. 1 - Coin Trap and Trap Lever Assembly

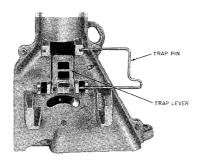


FIG. 2 — Placing Trap Lever Pin in Hopper

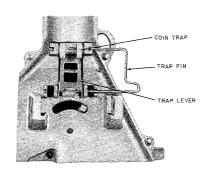
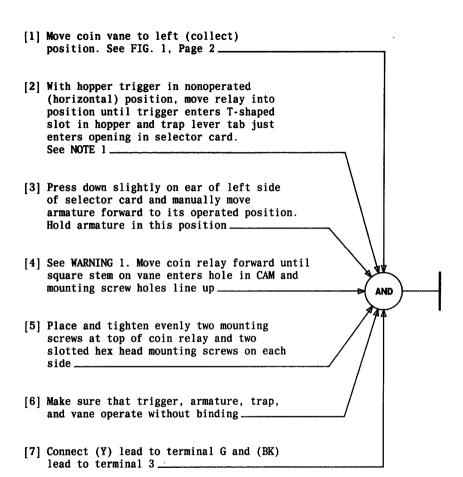


FIG. 3 — Placing Coin Trap in Hopper

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# NOTE 1 If trigger support bracket is so distorted that mounting holes do not engage hopper bosses, relay should not be installed

## WARNING 1 If stem of vane is forced into opening in cam without proper alignment, cam can be broken

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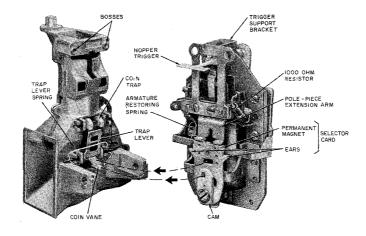


FIG. 1 — Coin Hopper and Rear View of Coin Relay

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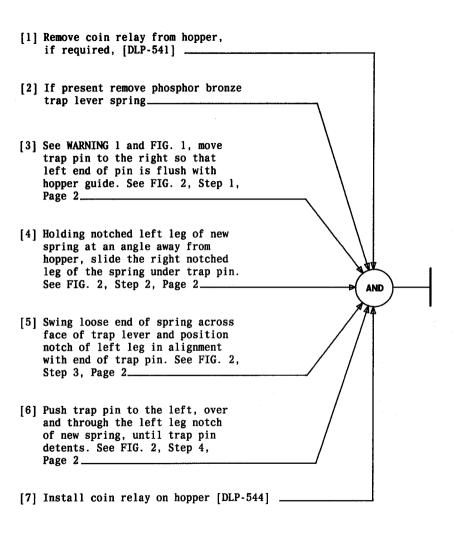
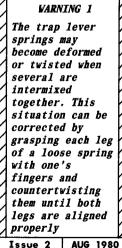


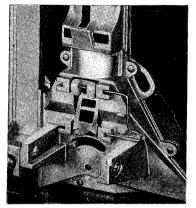


FIG. 1 - 840157333 Trap Lever Spring



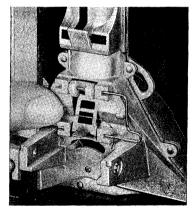
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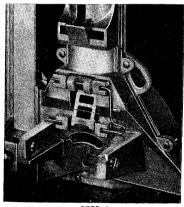
INSTALL 840157333 TRAP LEVER SPRING



STEPI





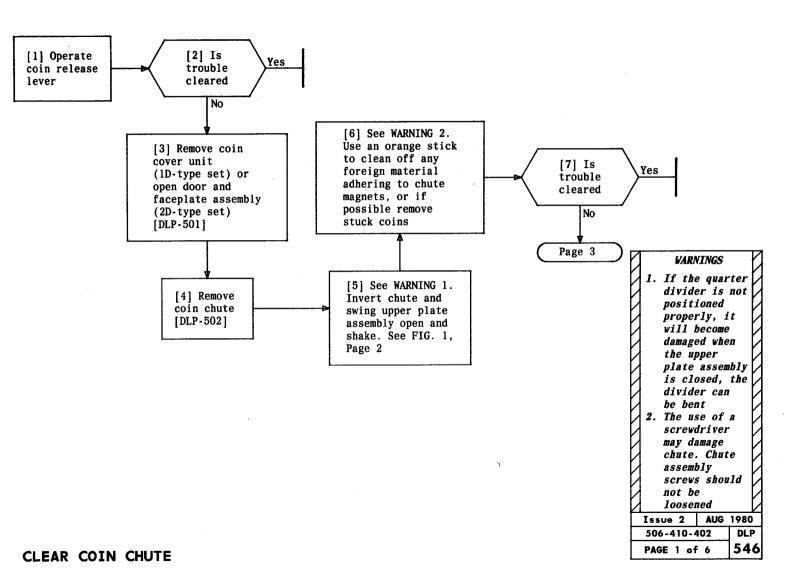


STEP 3

STEP 4

FIG. 2 — Installing Trap Lever Spring (Typical)

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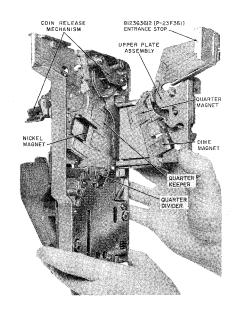
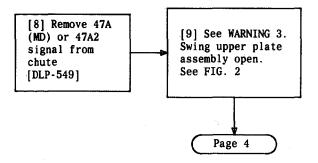


FIG. 1 - Chute

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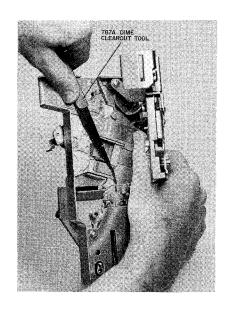
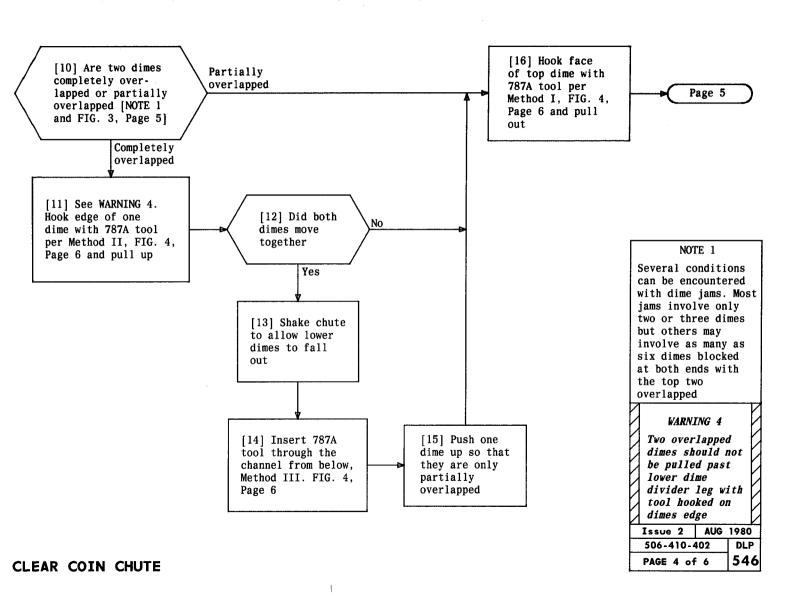
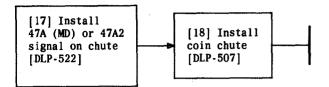


FIG. 2 — Using a 787A Dime Clearout Tool in Chute

J	WAKNING 3	r
1	If the quarter	ľ
1	divider is not	r
4	positioned	<b>I</b> /
4	properly, it will	ľ/
1	become damaged	$\mathcal{L}$
1	when upper plate	
1	assembly is	
1	closed. The	
1	divider can be	$\overline{}$
1	bent	
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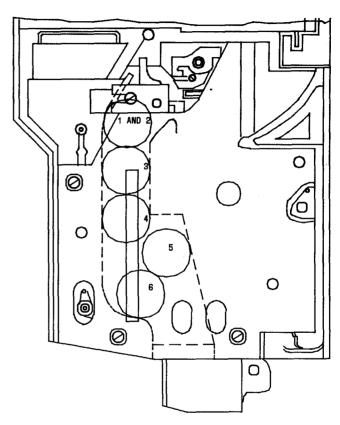


FIG. 3 - Lower Portion of Coin Chute With Six Dimes Jammed

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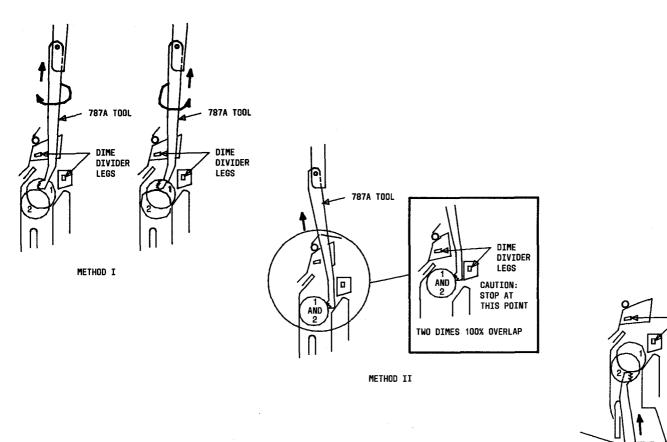


FIG. 4 - Method for Removing Jammed Dimes from Chute

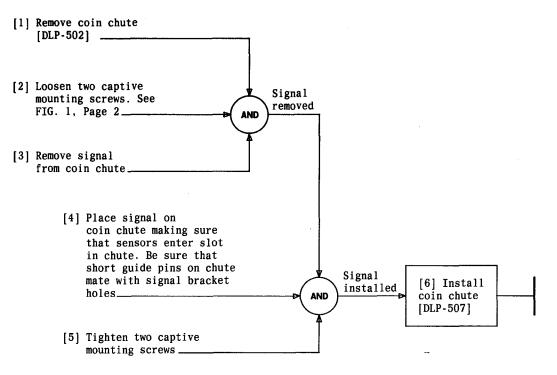
Issue 2	AUG	1980
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METHOD III

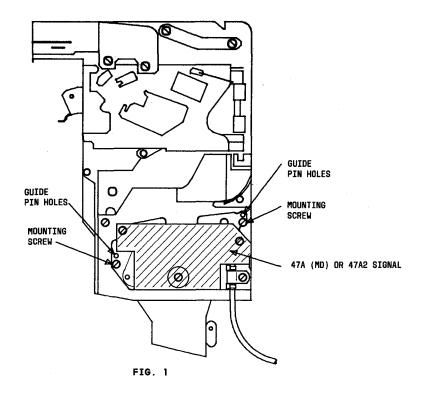
DIME DIVIDER

787A TOOL

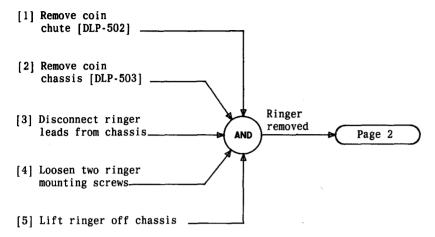
LEGS



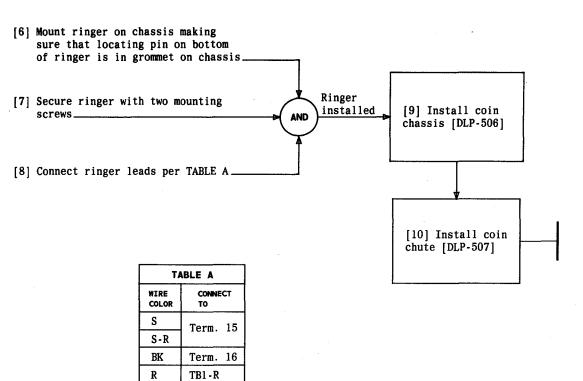
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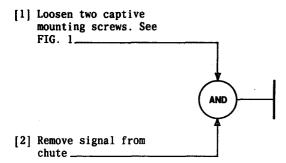
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	506-410-4	02	DLP
ĺ	PAGE 2 of	2	547

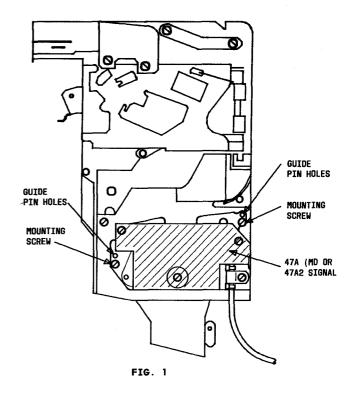


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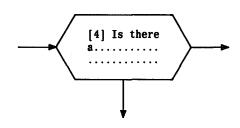


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101, 1D2 COIN TELEPHONE SET INSTALL
2D1, 2D2 COIN TELEPHONE SET INSTALL
CHECK LOCATION AND MOUNTING FACILITIES
CLEAR CAN'T BREAK DIAL TONE TROUBLE
CLEAR COIN CHUTE
CLEAR COIN TONE SIGNAL TROUBLE
CLEAR COINS COLLECTED OR RETURNED IN ERROR TROUBLE
CLEAR DIAL TONE TROUBLE
CLEAR INSUFFICIENT DEPOSIT COIN RETURN TROUBLE
CLEAR INSUFFICIENT DEPOSIT RECORDING TROUBLE
CLEAR OPERATOR COIN RETURN TROUBLE
CLEAR PENNY RETURN TROUBLE
CLEAR RINGER TROUBLE
CLEAR RINGING TONE TROUBLE
CONVERT 1A-, 2A-TYPE SET IN COIN-FIRST MODE TO 1D-, 2D-TYPE SET DIAL-TONE-FIRST MODE
CONVERT 1C-, 2C-TYPE SET IN COIN-FIRST MODE TO 1D-, 2D-TYPE SET DIAL-TONE-FIRST MODE

CONVERT 1C-, 2C-TYPE SET IN DIAL-TONE-FIRST MODE TO 1D, 2D-TYPE SET DIAL-TONE-FIRST MODE
CONVERT 1E1 SET IN DIAL POSTPAY MODE TO 1D1 SET DIAL-TONE-FIRST MODE
CONVERT 1E3 SET IN MANUAL POSTPAY MODE TO 1D1 OR 1D2 SET DIAL-TONE-FIRST MODE
INSTALL 1D1, 1D2 COIN TELEPHONE SET
INSTALL 2D1, 2D2 COIN TELEPHONE SET
INSTALL 840157333 TRAP LEVER SPRING
INSTALL COIN RELAY ON HOPPER
MAINTENANCE PHILOSOPHY - 1D/2D-TYPE COIN TELEPHONE SET 100
REMOVE COIN RELAY FROM HOPPER
REPLACE 47A (MD) OR 47A2 SIGNAL
REPLACE COIN RELAY
REPLACE COIN TRAP AND ASSOCIATED COMPONENTS
REPLACE RINGER
REPLACE VANE

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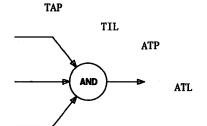
This is a....

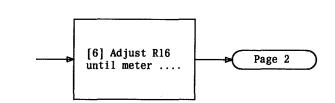
WARNING
Always be safety
conscious on
and off the job

### TASK ORIENTED PRACTICE..... or TOP

[DLP-540]

The next few pages will tell you how to use this document.





This book is called a Task Oriented Practice or a "TOP." It is a type of programmed document — one which gives you step-by-step instructions of how to do a job (or task). A TOP can be a big help in your everyday work, but you must know how to use it correctly. Take a few minutes, say 15 or 20, and study these few pages until you feel you understand how to use a TOP. Taking this time now will very likely save you time and effort later on.

An important thing to remember about TOP is that it contains all the needed instructions to complete a job. If you are doing the job for the first time, you will be directed through each action without having to guess or remember where to find the necessary information. If you are experienced on a particular job, TOP can provide just that information which you may have forgotten.

Almost all of your jobs can be classified into one of four types - Routine, Acceptance, Company Order, or Trouble Clearing. This is how TOP defines these four work types:

#### Routine

that work you do as part of a Controlled Maintenance Plan like scheduled cleaning or scheduled tests. Routine work may also include those things you do as a "routine" part of your job like requesting a TTY printout or turning on equipment in the mornings and off in the evenings.

#### Acceptance

that work you do to verify that equipment is installed properly. Normally this is a test or inspection you perform when Western Electric has completed a new installation or addition. It could also be a test you perform when another group from your Company has completed

an installation or addition of equipment. Acceptance work, however, is always related to testing or checking newly installed equipment.

#### Company Order

that work you do in response to one of several different "orders" which may be given to you. Some of the orders you may be familiar with are Circuit Orders, Service Orders, Traffic Orders, Recent Change Orders, etc. Normally, company order type work is something done to install, establish, change, or discontinue some service offered by the telephone company.

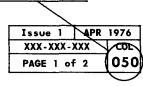
#### Trouble Clearing

is simply what it says — that work you do to clear and repair troubles in the system. Trouble clearing may be done in answering a customer complaint, responding to some office alarm, an abnormal TTY printout, etc.

Try to fix these four work types firmly in your mind. As you will see, you must classify each job you get in one of these four types before you will be able to look up the instructions in the TOP.

Now glance briefly at the front cover; there are several things which will be useful there. In the upper-right corner is the 9-digit volume number. Near the center is the volume title which tells you something about the contents — such things as the system (or subsystem) name and perhaps the type of jobs included in the volume. Next is a four-line index located in the lower-left corner. This index provides the location of four "lists" which are simply a listing of all the jobs in each of the four job types. If a nine-digit (XXX-XXX-XXX) number appears on

the front cover index, that particular list is located in another volume of the TOP. A three-digit number on the line means that the list is in this volume, and the list can be located by searching the lower-right corner of each page for the *referenced number*.



These numbers will always be arranged in numerical order; however, all numbers in the sequence will not be used.

Some TOP volumes may cover only a small part of a system, so on the inside of each front cover you will find a documentation plan. This plan will give a bird's-eye view of all the volumes in the TOP and can help you quickly determine the correct volume.

Locate one of the TOP volumes which contains a Company Order List, and note from the front cover that this list is numbered "050." Turn to that number in the TOP.

This Company Order List (COL) is simply a listing of all the Circuit Order jobs, Service Order jobs, etc, that may be done on this system. Once you know the job you have to do, use the lists as an index to find the number of the "procedure" which tells you what to do to complete that job.

Now pick one of these jobs from the list which references to a COP (Company Order Procedure), and using the referenced number, locate that procedure in the TOP. Look over this procedure and note that it gives all the items which must be done to complete the job.

The items are numbered and must be completed in that order; however, you may see some lettered (A, B, C...) items in the procedure. These letters are assigned to options or other items which may be done differently because of equipment variations, etc. Look over the following example to get a better idea of what is meant by the numbers (1, 2, 3...) and letters (A, B, C...) which may be used in the procedure.

ITEM	SUBTASKS	PROCEDURE NUMBER
1	Do the first thing first	DLP-XXX
2	Do the second item next	DLP-XXX
3	Do the following optional items as required by the Company Order or as is required by the system you are working on	
	A. An optional item	DLP-XXX
	B. Another optional item	-
	C. Another optional item which must be done in the sequence below	
	1. First part of Option "C"	DLP-XXX
	2. Last part of Option "C"	DLP-XXX
4	Do the next part of the job	DLP-XXX
5	Do the last part of the job	DLP-XXX

Remember that this procedure tells you what to do in order to complete the total job. If you know how to do an item in the procedure, you should go ahead and complete it. If you need further information on how to do part of the job, then you should turn to the referenced DLP or Detail Level Procedure. When you complete all the steps in the DLP, then you must turn back to the COP or Company Order Procedure to find the next item to be done.

TOP is designed so that you will have to read only what is necessary to get your job done. At any time when you know how to perform all the steps in an item, it is not necessary to look further for the "how to" information — simply complete the item and go on to the next one. This idea, in TOP, is known as "bypassing."

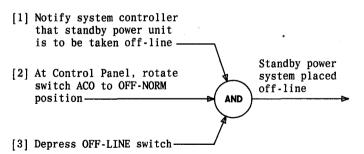
Here are some of the things designed into TOP to help you "bypass" information you may already know:

#### Summary Statement

A summary statement is used with a DLP (or the flow-charted procedures). It tells you briefly what the procedure does and what type measurement or result can be observed. After reading the summary, you may be able to complete the procedure without reading further. Some shorter DLPs, of course, do not have summary statements.

#### Result Statement

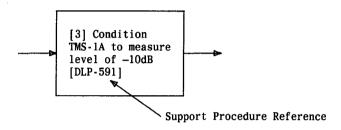
A result statement may be used in a flow-charted procedure along with the "AND" symbol. Here is an example of the "AND" symbol and a result statement:



When using a procedure, read the result statement first. If you know how to place standby power system in off-line status, it would be unnecessary to read steps 1, 2, and 3.

#### Support Procedures

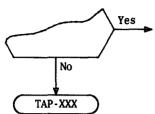
When you see this kind of reference in TOP, it refers to a support procedure.



The support procedure (DLP-591) would provide information about how to operate the TMS-1A. Of course, if you are familiar with the TMS-1A, there is no reason to look up DLP-591.

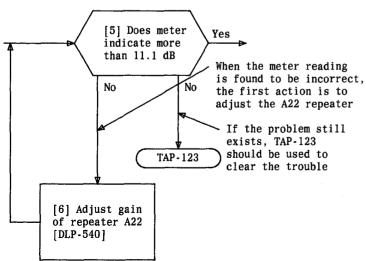
So far, the Company Order type jobs have been the main topic; however, you will find that the Routine and Acceptance categories are used in the same manner. You may come across a couple of new abbreviations in those categories, namely, Acceptance Task Procedure (ATP) and Routine Task Procedure (RTP). These categories are used in the same way that the Company Order Procedure (COP) is used in the Company Order work.

While using TOP, you probably will run across a reference similar to this:



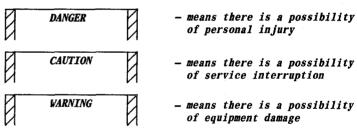
This reference to TAP-XXX indicates that the equipment is not operating correctly and the TAP (Trouble Analysis Procedure) should be used to help you find and repair the trouble.

This idea can be carried further. In some cases, a decision block may have more than one abnormal output. This simply means that you should try more than one solution to the problem. See the example below.



Trouble clearing information in TOP is basically used the same way as the other types. When a trouble report or equipment alarm requires you to troubleshoot a system, the Trouble Indicator List (TIL) is the place to start. This (TIL) is a listing of trouble symptoms or alarms with a reference to a Trouble Analysis Procedure (TAP). The TAP is an aid in analyzing and locating the cause of the trouble. The TAP may reference to other information such as a Trouble Analysis Data (TAD) or an Isolation Diagram (ISD) as an aid in the trouble clearing process.

Any job must always be done safely and it is no different with TOP. Here are three items which you should look for in TOP:



The last page of this introductory section is a diagram which shows all the elements used to make up a TOP and basically how they are organized to make a complete document. The diagram may, at first, seem to be complex; but remember, TOP is a programmed document and it always tells you where to find the next bit of information required to do the job. The diagram, however, may be useful later if you need to know the words which DLP, TAP, etc, represent or simply a memory jogger about TOP in general.

While using any TOP, if you find errors, or if a procedure is inadequate or missing, your comments are greatly needed. They may be forwarded by using the standard form E3973 which is available through your Company. Thank you for helping us prepare better documentation.

