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.

Issue 2	AUG	1980
506-410-4	402	TPG
TITLE PA	AGE	1

ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE
CKL-000	1 - 1	● DLP-511		● DLP-546							
RTL-001	1	DLP-512		● DLP-547					İ		İ
ATL-030		● DLP-513		● DLP-548							
● COL-050		DLP-514		● DLP-549					1		1
● COP-051	1 1	DLP-515		● IXL-890							<u> </u>
● COP-052		DLP-516									
● COP-053	1	DLP-517					1 1				1
● COP-054		DLP-518									
● COP-055		DLP-519									
• COP-056		DLP-520			1 1						
● COP-057	1	● DLP-521									
• TIL-095		● DLP-522									
● TAD-100		● DLP-523	1 1								
• TAP-101		DLP-524								l	
TAP-102		DLP-525				1					
TAP-103		DLP-526			1						
TAP-104		DLP-527								*	
TAP-105		● DLP-528		1		i					
TAP-106		● DLP-529									l
TAP-107		• DLP-530									
● TAP-108		● DLP-531					1				1
TAP-109		• DLP-532									l
TAP-110		● DLP-533							i .		l
• TAP-111		DLP-534									1
• DLP-500		● DLP-535									l
● DLP-501		• DLP-536									
DLP-502		• DLP-537									
● DLP-503		• DLP-538									
● DLP-504		• DLP-539									
• DLP-505		● DLP-540									
• DLP-506		● DLP-541	1				1				
• DLP-507		• DLP-542							1		1
• DLP-508		• DLP-543									1
DLP-509		• DLP-544									
DLP-510		• DLP-545						1	<u> </u>		
	***************************************	REVISED OR ADD	ED ITEM		CANCEL	ED ITEM				Issue 2 AUG	1980
									1	506-410-402	CKL
CHECKLIS	ST — '	ID/2D-TYPI	E COI	N TELEPHO	NE S	ET			Ī	PAGE 1 of 1	 000

ROUTINE TASKS	PROCEDURE NUMBER
NONE REQUIRED	
	Issue 2 AUG 1980
	506-410-402 RTL
ROUTINE TASK LIST - 1D/2D-TYPE COIN TELEPHONE SET	PAGE 1 of 1 00

ACCEPTANCE TASKS		PROCEDURE NUMBER
NONE REQUIRED		
HONE REGULED		
	Issue 2	AUG 1980
	506-410-	402 ATL 030

COMPANY ORDER TASKS	1	ROCEDURI NUMBER
SERVICE ORDERS		
Install 1D1, 1D2 Coin Telephone Set in Dial-Tone-First Mode and Test	С	OP-051
Install 2D1, 2D2 Coin Telephone Set in Dial-Tone-First Mode and Test	С	OP-052
Convert 1C-, 2C-Type Set in Dial-Tone-First Mode to 1D-, 2D-Type Set Dial-Tone-First Mode and Test	C	OP-053
Convert 1C-, 2C-Type Set in Coin-First Mode to 1D-, 2D-Type Set Dial-Tone-First Mode and Test	C	OP-054
Convert 1A-, 2A-Type Set in Coin-First Mode to 1D-, 2D-Type Set Dial-Tone-First Mode and Test	C	OP-055
Convert 1El Dial Postpay to 1D-Type Dial-Tone-First and Test	C	OP-056
Convert 1E3 Manual Postpay to 1D-Type in Dial-Tone-First and Test	C	OP-057
	Issue 2 A	UG 1980

TEM	SUBTASKS		PROCEI	
	NOTE: Generally for new installations, Items 1 through 8 must be performed. Additional informatio regarding these tasks is provided in TAD-100	n		
1	Install Drop Wire (if required)			
2	Install Protection and Ground (if required)		DLP-5	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 (if required)			
9	Check Location and Mounting Facilities		DLP-5	500
10	Remove Coin Cover Unit		DLP-5	501
11	Remove Coin Chute		DLP-5	502
12	Remove Coin Chassis		DLP-5	503
13	Attach Housing to Mounting Surface		DLP-5	
14	Verify or Set Initial Rate		DLP-	505
15	Install 32A Coin Chassis		DLP-	506
16	Install Coin Chute		DLP-	507
17	Install KS-20950, List 2 Cover Parking Tool or P11C Patch Cord		DLP-	
18	Measure Loop Resistance		DLP-	
19	Measure Ground Resistance		DLP-	
20	Perform Operational Tests		DLP-	511
21	Remove KS-20950, List 2 Cover Parking Tool or P11C Patch Cord			
		ssue 2	AUG	
	<u>_ </u>	506-410-	402	05

ITEM	SUBTASKS	PROCEDUR 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
	_	
	Issue 504 d	
	ALL 1D1, 1D2 COIN TELEPHONE SET PAGE 2	of 2 05

ITEM	SUBTASKS		PROCE NUM	
	NOTE: Generally for new installations, Items 1 through 8 must be performed. Additional information regarding these tasks is provided in TAD-100			
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 P11C Patch Cord		DLP-	508
18	Measure Loop Resistance		DLP-	509
19	Measure Ground Resistance		DLP-	510
20	Perform Operational Tests		DLP-	511
21	Remove P11C Patch Cord		_	
	· · · · · · · · · · · · · · · · · · ·	ue 2		1980
		6-410		COP
INST	TALL 2D1, 2D2 COIN TELEPHONE SET	3E 1 d	of 2	05

TEM	SUBTASKS		PROCEDURI NUMBER
22	Install Number Card on 2D1 (Rotary Dial) Coin Telephone Set, if applicable		-
ı	1. Close Door and Faceplate Assembly		DLP-512
İ	2. Remove Dial Fingerwheel		DLP-513
l	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
		·	
			T 4110 100
		Issue 2 506-410-	AUG 198
		PAGE 2 o	

ITEM	SUBTASKS		PROCEI NUMB	
1	Verify Proper Protection and Ground		DLP-5	537
2	Remove Coin Cover Unit or Open Door and Faceplate Assembly		DLP-5	501
3	Remove Coin Chute		DLP-5	502
4	Remove Totalizer From Coin Chute		DLP-5	521
5	Install 47A (MD) or 47A2 Signal on Coin Chute		DLP-5	522
6	Remove Coin Chassis		DLP-5	i03
7	Verify or Set Initial Rate on 32A Coin Chassis		DLP-5	05
8	Install 32A Coin Chassis		DLP-5	06
9	Install Coin Chute		DLP-5	07
10	Verify Compatibility of Coin Dial Unit		DLP-5	25
11	Make Wiring Changes on TB2		DLP-5	23
12	Install KS-20950, List 2 Cover Parking Tool or Pl1C Patch Cord		DLP-5	08
13	Verify Loop Resistance		DLP-5	09
14	Verify Ground Resistance		DLP-5	10
15	Perform Operational Tests		DLP-5	11
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-5	12
18	Make Coin Release Lever and Call Back Tests		DLP-5	19
		Issue 2	AUG 1	1980

1D, 2D-TYPE SET DIAL-TONE-FIRST MODE

053

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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 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		-
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
COALI	AEDT 16 OC TYPE SET IN COIN EIRST MODE TO	Issue 2	AUG 198
	VERT 1C-, 2C-TYPE SET IN COIN-FIRST MODE TO	506-410-	
1D-	, 2D-TYPE SET DIAL-TONE-FIRST MODE	PAGE 1 o	f 1 05

ITEM	SUBTASKS		PROCE!	
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-5	503
7	Verify Compatibility of Coin Relay		DLP-5	526
8	Verify or Set Initial Rate on 32A Coin Chassis		DLP-5	505
9	Install 32A Coin Chassis		DLP-5	506
10	Install Coin Chute		DLP-5	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
		Iss∪e 2	AUG	1980
CON	/ERT 1A-, 2A-TYPE SET IN COIN-FIRST MODE TO	506-410	-402	CO
1D-	2D-TYPE SET DIAL-TONE-FIRST MODE	PAGE 1	of 1	0:

Protection and Ground over Unit nute Per From Coin Chute AD) or 47A2 Signal on Coin Chute nassis 50B, or 51A Hopper Assembly With 1AA Coin Relay Initial Rate on 32A Coin Chassis oin Chassis Chute ibility of Coin Dial Unit hanges on TB2 950, List 2 Cover Parking Tool or P11C Patch Cord esistance		DLP-: DLP-: DLP-: DLP-: DLP-: DLP-: DLP-: DLP-: DLP-: DLP-: DLP-: DLP-: DLP-: DLP-: DLP-: DLP-:	501 502 521 522 503 534 505 506 507
Aute Der From Coin Chute Der From Coin Chute Der Araz Signal on Coin Chute Des Des Des Des Des Des Des Des Des Des		DLP- DLP- DLP- DLP- DLP- DLP- DLP- DLP-	502 521 522 503 534 505 506 507
Zer From Coin Chute AD) or 47A2 Signal on Coin Chute Dassis DoB, or 51A Hopper Assembly With 1AA Coin Relay Initial Rate on 32A Coin Chassis Din Chassis Chute Dibility of Coin Dial Unit Changes on TB2 DoBy Doby		DLP-S DLP-S DLP-S DLP-S DLP-S DLP-S DLP-S DLP-S DLP-S	521 522 503 534 505 506 507
MD) or 47A2 Signal on Coin Chute massis 50B, or 51A Hopper Assembly With 1AA Coin Relay Initial Rate on 32A Coin Chassis oin Chassis Chute ibility of Coin Dial Unit hanges on TB2 950, List 2 Cover Parking Tool or P11C Patch Cord esistance		DLP DLP DLP DLP DLP DLP DLP DLP	522 503 534 505 506 507
Initial Rate on 32A Coin Chassis Oin Chassis Chute Ibility of Coin Dial Unit Inanges on TB2 P50, List 2 Cover Parking Tool or P11C Patch Cord Relay Initial Rate on 32A Coin Chassis Chute Ibility of Coin Dial Unit Inanges on TB2 P50, List 2 Cover Parking Tool or P11C Patch Cord Resistance		DLP-S DLP-S DLP-S DLP-S DLP-S DLP-S	503 534 505 506 507
Initial Rate on 32A Coin Chassis Oin Chassis Chute ibility of Coin Dial Unit hanges on TB2 950, List 2 Cover Parking Tool or P11C Patch Cord esistance		DLP- DLP- DLP- DLP- DLP-	534 505 506 507
Initial Rate on 32A Coin Chassis Oin Chassis Chute ibility of Coin Dial Unit hanges on TB2 950, List 2 Cover Parking Tool or P11C Patch Cord esistance		DLP-	505 506 507
Chute ibility of Coin Dial Unit hanges on TB2 950, List 2 Cover Parking Tool or P11C Patch Cord esistance		DLP-	506 507
Chute ibility of Coin Dial Unit hanges on TB2 950, List 2 Cover Parking Tool or P11C Patch Cord esistance		DLP-	507
ibility of Coin Dial Unit hanges on TB2 950, List 2 Cover Parking Tool or P11C Patch Cord esistance		DLP-	
hanges on TB2 950, List 2 Cover Parking Tool or P11C Patch Cord esistance		DLP-	525
950, List 2 Cover Parking Tool or P11C Patch Cord esistance			220
esistance		DI P-	523
		DEL	508
		DLP-	509
Resistance		DLP-	510
tional Tests		DLP-	511
50, List 2 Cover Parking Tool or PllC Patch Cord		_	
mation Plate (if provided)		_	
Cover Unit		DLP-	512
uction Cards		DLP-	524
Release Lever and Call Back Tests		DLP-	519
or n tr	0950, List 2 Cover Parking Tool or P11C Patch Cord ormation Plate (if provided) n Cover Unit truction Cards n Release Lever and Call Back Tests	ormation Plate (if provided) n Cover Unit truction Cards	ormation Plate (if provided) n Cover Unit DLP- truction Cards DLP-

ITEM	SUBTASKS		PROCE NUM	EDURE BER
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 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	Verify Correct Information Plate		_	
19	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
	ALEA CET THE MANUAL POCTRAY MORE TO	Issue 2	AUG	1980
	/ERT 1E3 SET IN MANUAL POSTPAY MODE TO	506-410-		COP
1D1	OR 1D2 SET DIAL-TONE-FIRST MODE	PAGE 1 o	of 2	05

ITEM	SUBTASKS	PROCE NUM	
20	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
21	Install Instruction Cards	DLP-	518
22	Perform Coin Release Lever and Call Back Tests	DLP-	519
	Issue	2 AUG	198
CONV		10-402	CC
	OR 1D2 SET DIAL-TONE-FIRST MODE	2 of 2	0

TROUBLE INDICATED	MAY ALSO BE REPORTED AS		PROCED	
MAINTENANCE PHILOSOPHY		工	TAD-1	100
TROUBLE REPORTS - VISUAL INSPECTION ITEMS				
Instruction Cards Multilated or Missing			DLP-5	524
Fingerwheel and/or Number Card Inoperative (Rotary Dial)	Fingerwheel Bent, Number Card Missing or Multilate	ed be	DLP-5	527
Number Card and/or Window (TOUCH-TONE® Dial) Mutilated			DLP-5	535
Rotary or TOUCH-TONE Dial Inoperative			DLP-5	531
Handset Broken or Missing	Handset Cord Broken		DLP-5	530
Switchhook (Coin Dial Unit) Broken			DLP-5	528
Coin Release Lever Bent or Broken			DLP-5	532
Coin Return Assembly Mutilated or Missing			DLP-5	533
Coin Cover Unit Mutilated			DLP-5	536
TROUBLE REPORTS - NORMAL OPERATIONAL FAILURES				
Telephone Set Does Not Function Properly	No Dial Tone, Doesn't Return Coins, etc.		DLP-5	529
TROUBLE REPORTS - STATION HAS COIN TROUBLE HISTORY				
Coins Collected or Returned in Error			TAP-1	111
			1	
		ue 2	AUG	1980 TIL
TROUBLE INDICATOR LIST — 1D/2D-TYPE		E 1 of		09

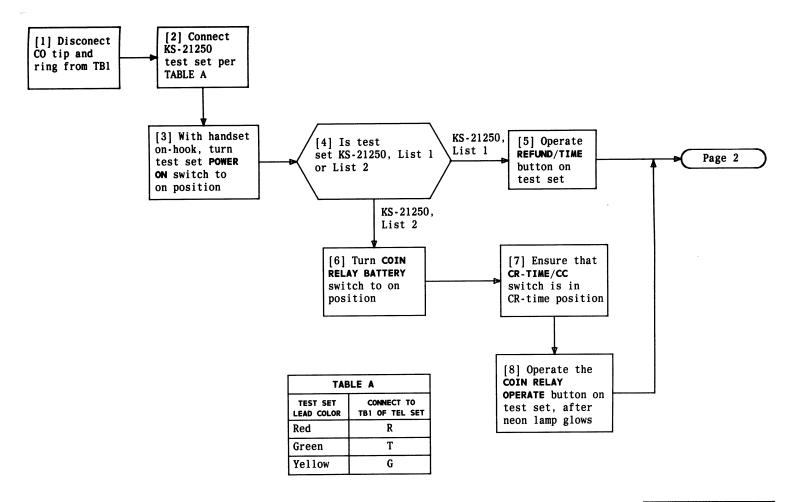
There are many configurations and types of locations in which coin telephone service is provided. Accordingly, a general approach to maintenance of these facilities is advocated in this document, but which may be modified in accordance with local approved telephone company procedures. Because of this 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 P		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			

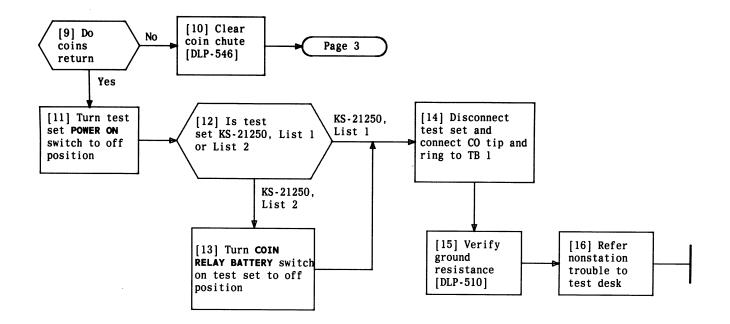
After any component replacement, the coin telephone set shall be tested as a standard maintenance method per DLP-529.

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.

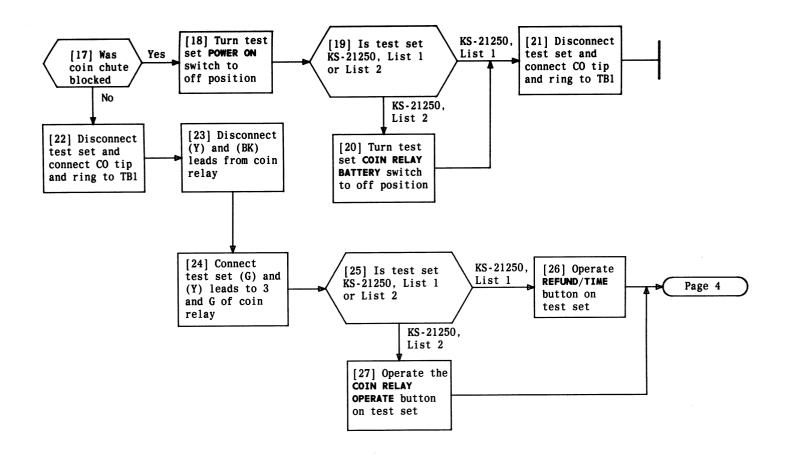
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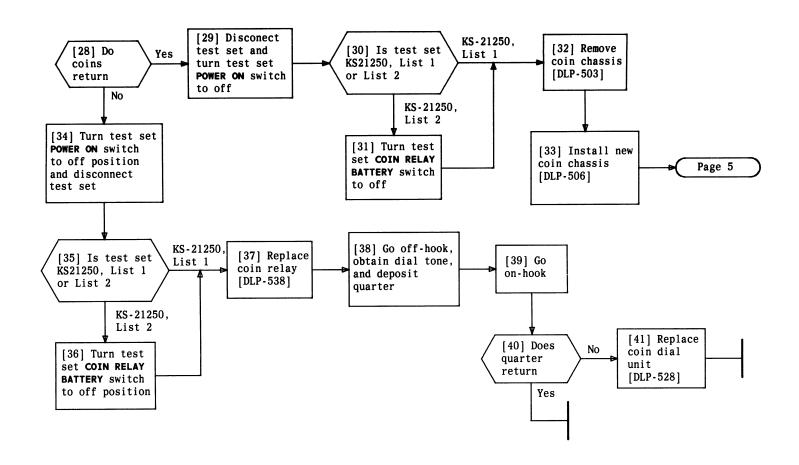
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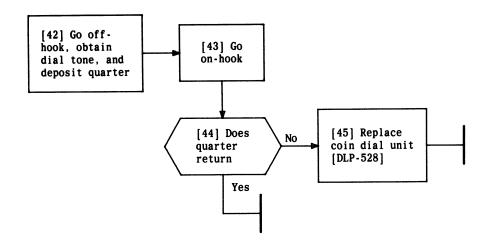
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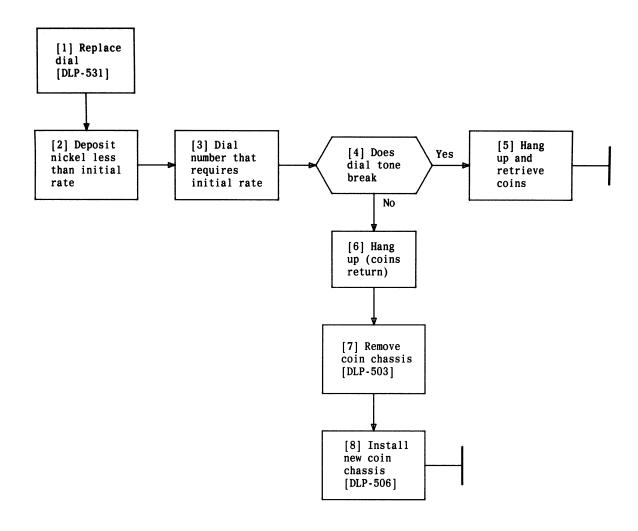
Issue 2	AUG	1980
506-410-4	102	TAP
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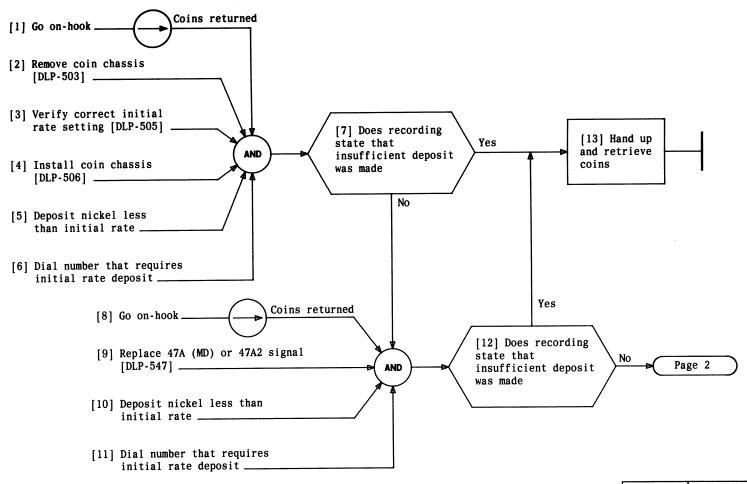
Issue 2	AUG	1980
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506-410-402		TAP
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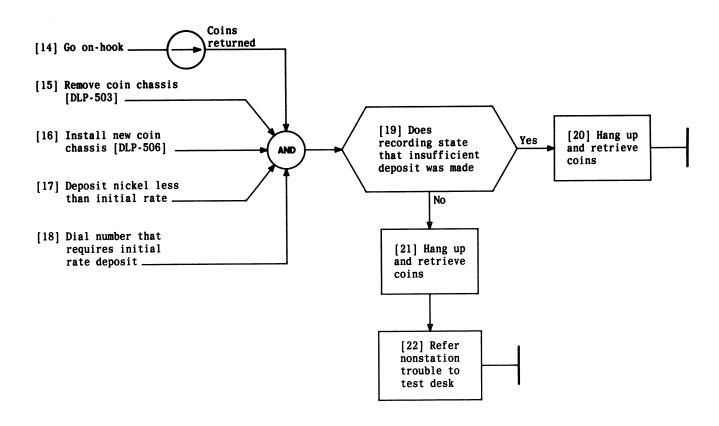


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506-410-4	102 TAP
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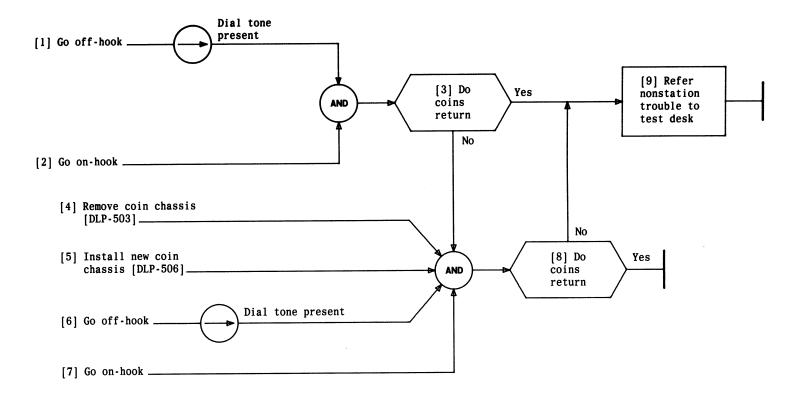


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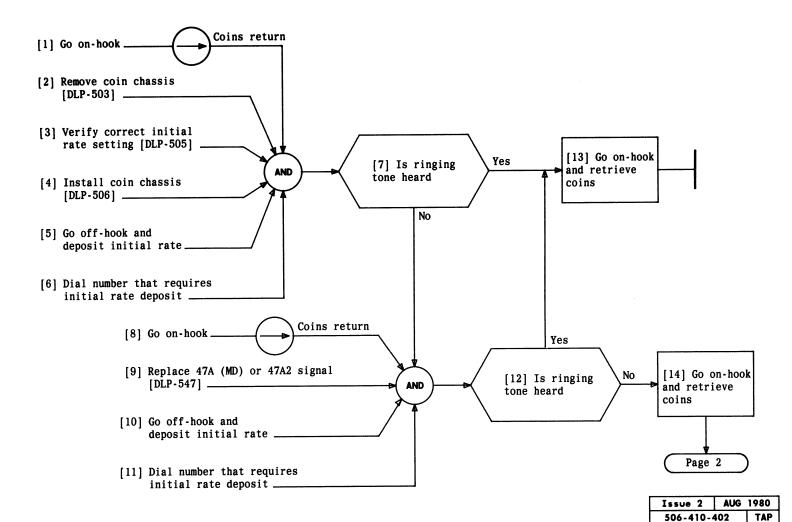
CLEAR INSUFFICIENT DEPOSIT RECORDING TROUBLE



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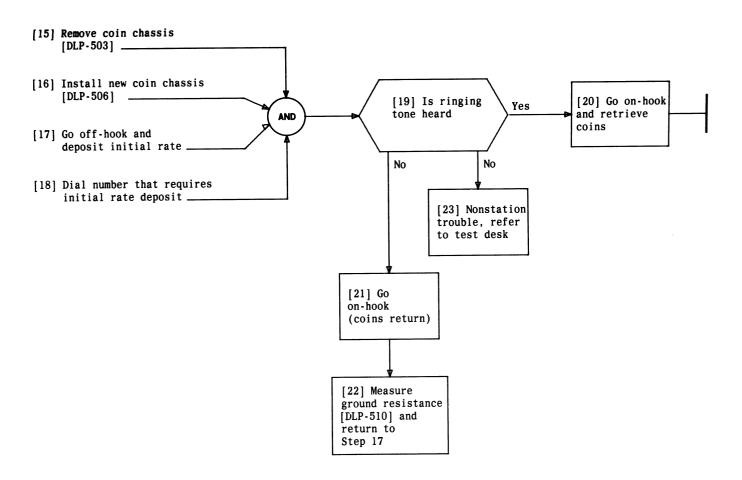
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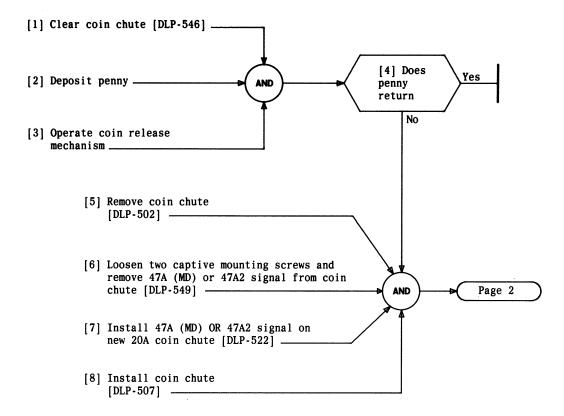
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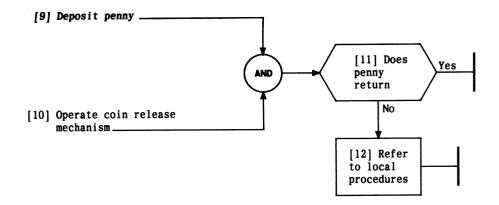
CLEAR	RINGING	TONE	TROUBLE
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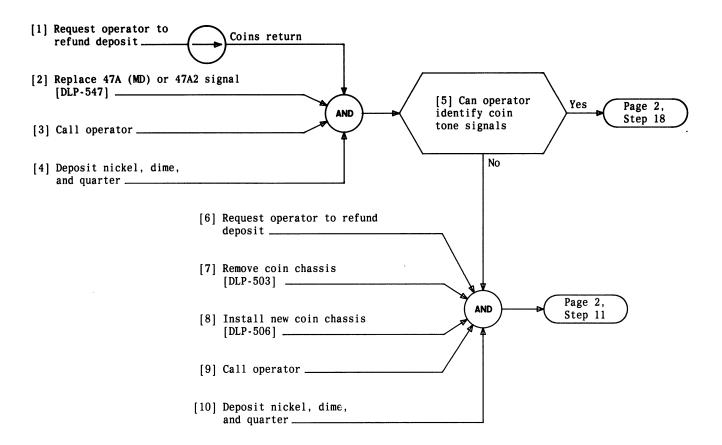
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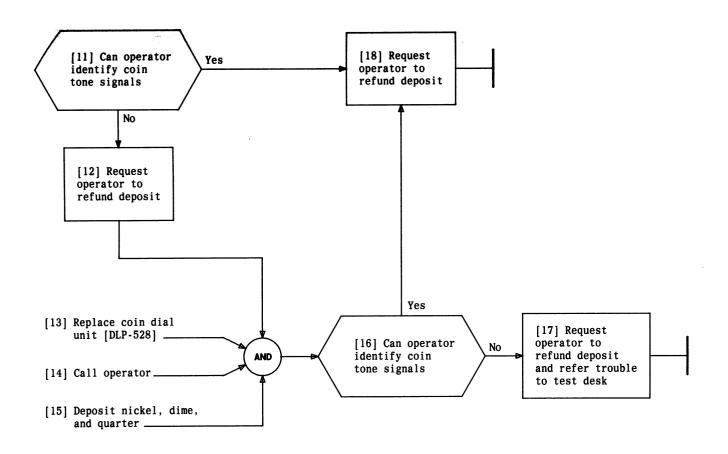
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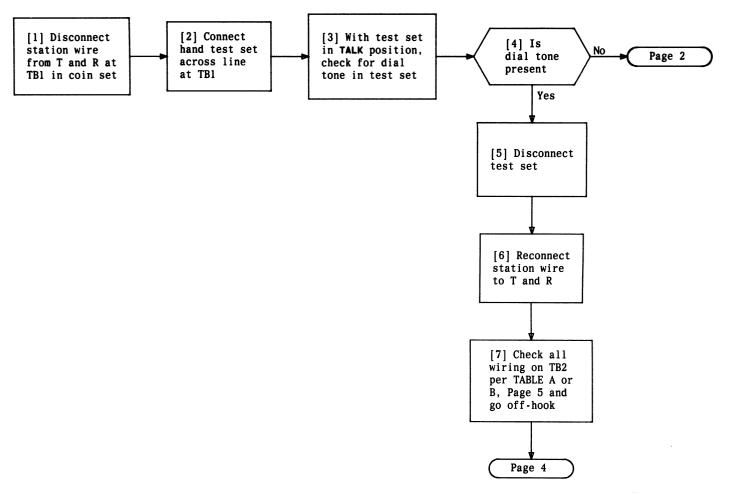
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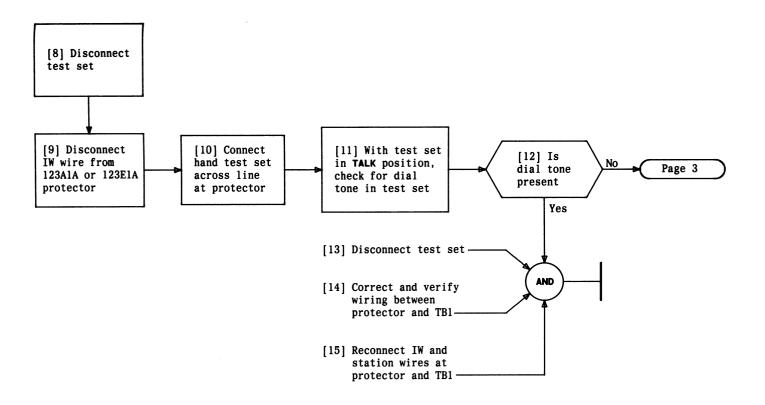
Issue 2	AUG	1980
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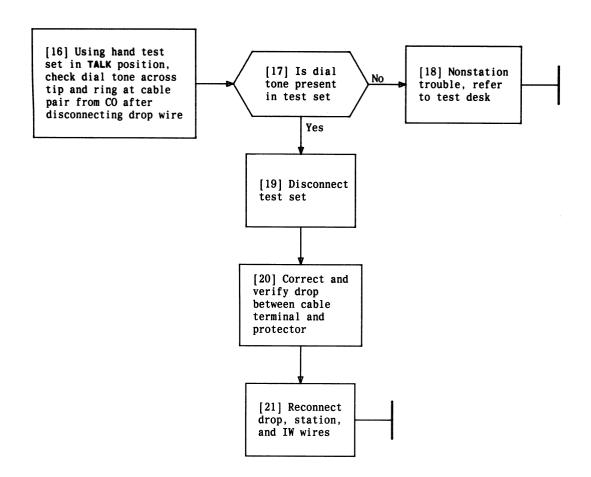
Issue 2	AUG	1980
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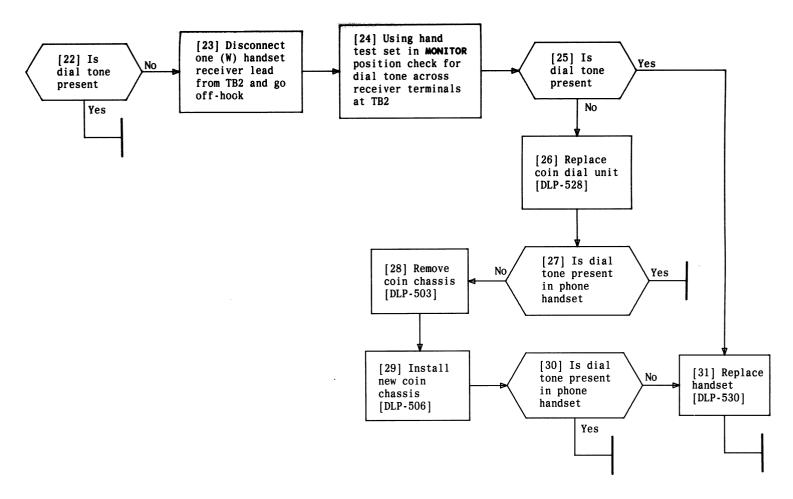
Issue 2	AUG	1980
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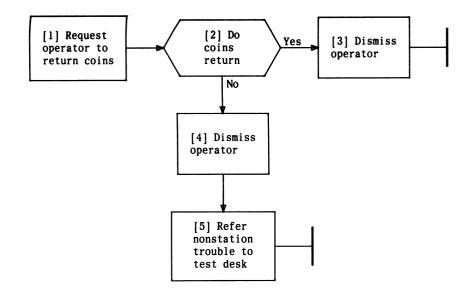
	TABLE A					
ROTARY DIAL TELEPHONE SET CONNECTIONS						
COMPONENT WIRE COLOR TB2 COMPONENT WIRE COLOR TB2						
	BL	BR	10			
	BL or G	8		BR	10	
Dial	W	4	Switchhook	0	9	
	W	3		0	8	
	Y	10		W	2	
	Y	13		Y	7	
	W	4		G	12	
IIdoot	R	3		S	12	
Handset	BK	6		S-W	14*	
	W	7		R†	12	
Strap	S	2 to 3				

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

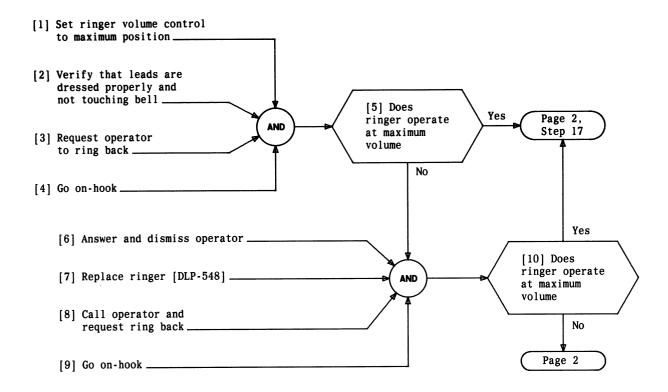
TABLE B					
"TOUCH-TONE" DIAL TELEPHONE SET CONNECTIONS					
COMPONENT	WIRE COLOR	TB2	COMPONENT	WIRE COLOR	TB2
	G	1		BR	11
	W	4		BR	9
	R	3	•	0	9
70A (MD)	R-G	2	Switchhook	0	11
or 70B Dial	BK	1		W	8
	O-BK	10		Y	3
	O-R	5		G	12
	W-BL	7		S	12
	O-W	10		S-W	14*
	v	13		R	12
	W	7			
Handset	R	3			
	BK	6			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

^{*}Terminal 14 appears on new 61A coin dial units only

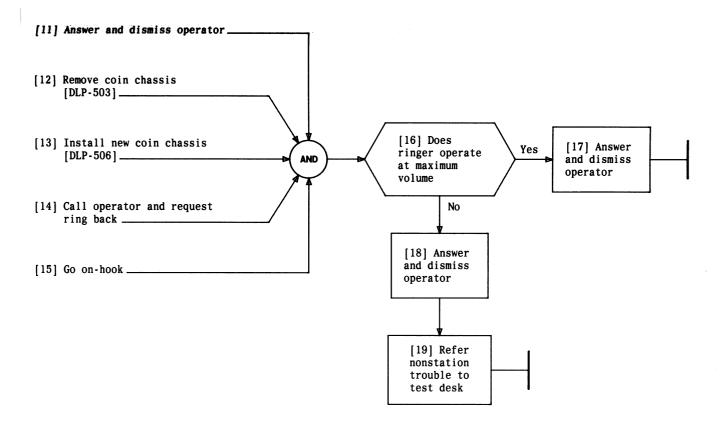
Issue 2	AUG	1980
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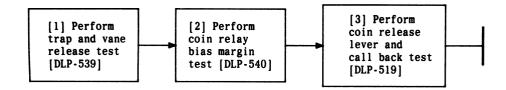
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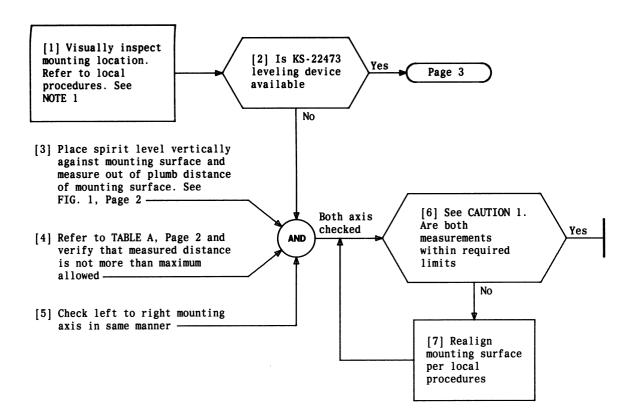
Issue 2	AUG 1980
506-410-4	102 TAP
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506-410-4	102	TAP
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506-410-4	102	TAP
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NOTE 1 Considerations for locating

- 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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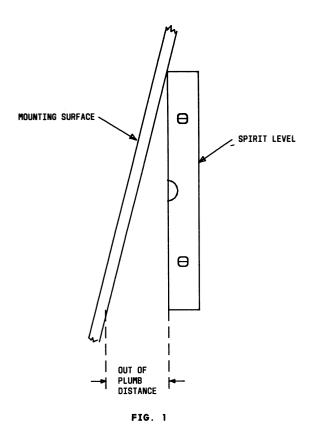


TABLE A METHOD OF DETERMINING A VERTICAL SURFACE			
SPIRIT MAXIMUM ALLOWABLE LEVEL DISTANCE OUT LENGTH OF PLUMB			
18 inches	15/32-inch		
24 inches	5/8-inch		
30 inches	25/32-inch		
36 inches	15/16-inch		

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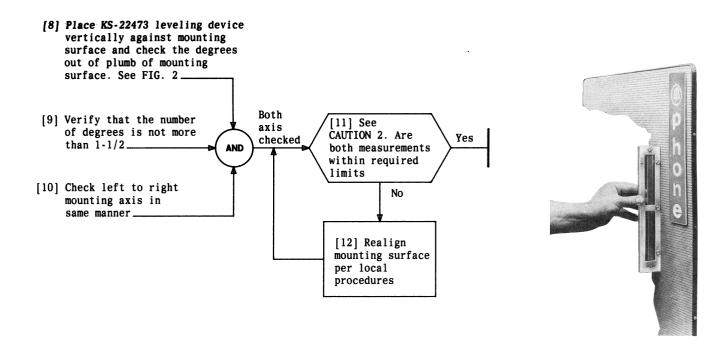
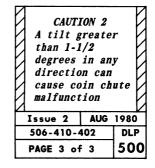
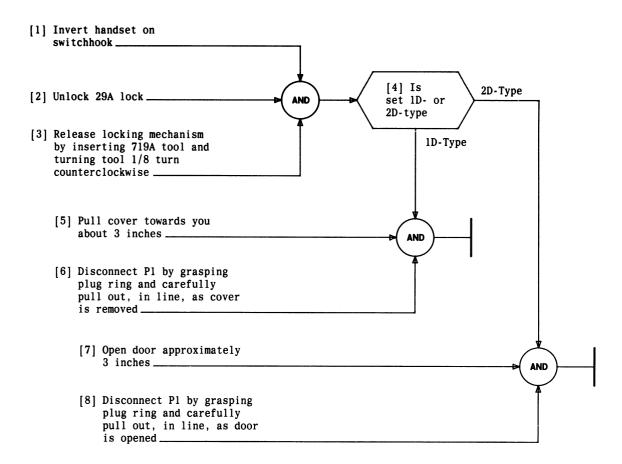


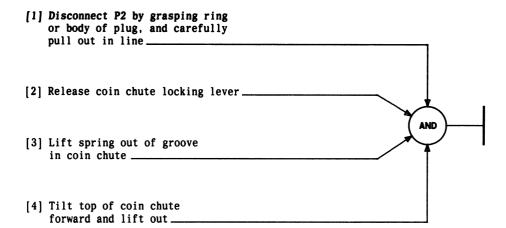
FIG. 2



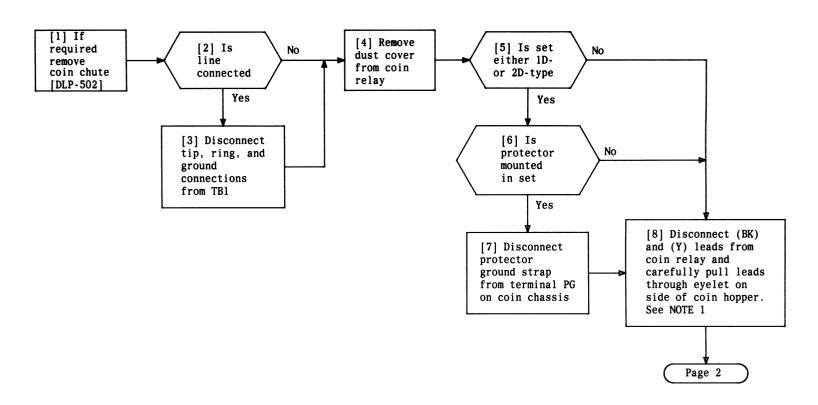


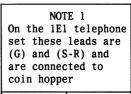
REMOVE COIN COVER UNIT (1D-TYPE SET) OR OPEN DOOR AND FACEPLATE ASSEMBLY (2D-TYPE SET)

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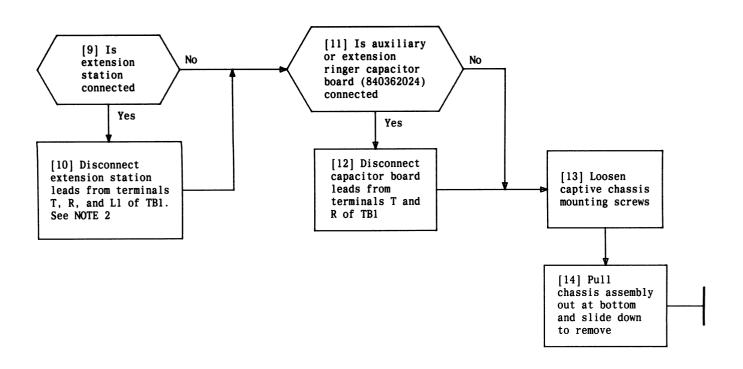


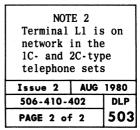
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[1] Insert inside wire or drop wire and 12 AWG protector ground wire into wire entrance hole. See FIG. 1, Page 2

[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 (4 REQUI			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	•				

^{*} 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

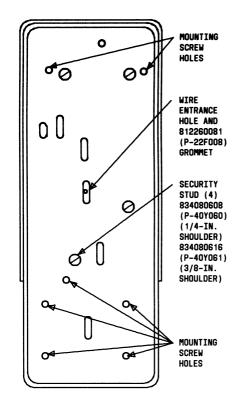
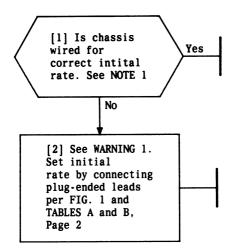


FIG. 1 — Location of Mounting Screw Holes and Security Studs in 1D-Type Set

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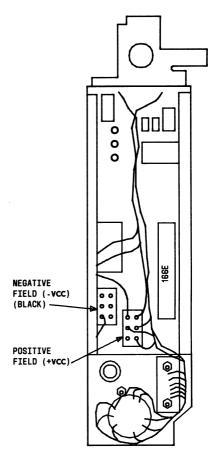
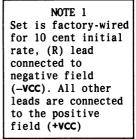


FIG. 1 - 32A Coin Chassis



l	WARNING 1	ľ
l	The wires can be	ľ
l	broken if grasped by the wire	ł
J	by the wire	ł
١	instead of plug	ŀ
_		ı

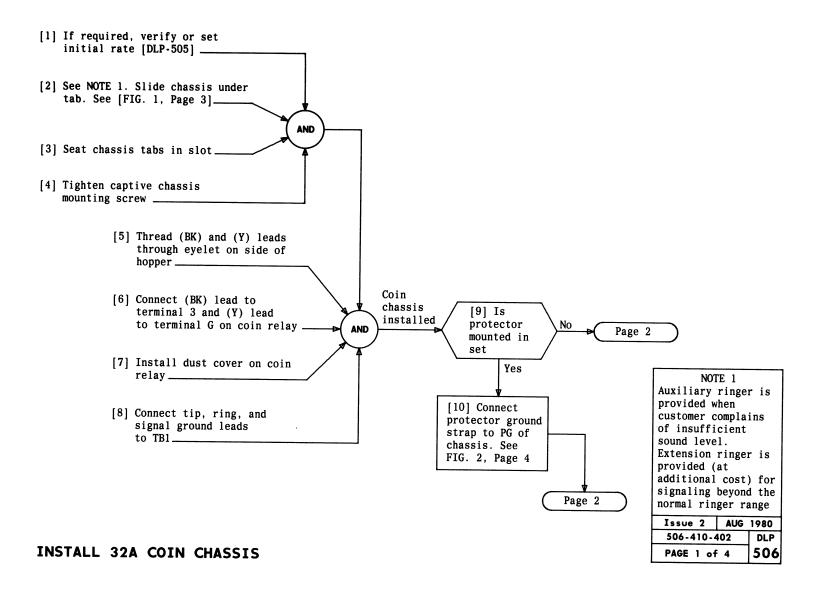
Issue 2	AUG	1980
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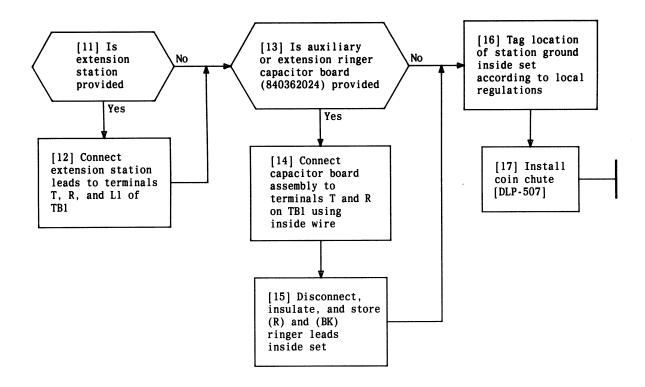
TABLE A			
INI	TIAL RATE LEADS*		
LEAD INDICATED COLOR RATE			
(BR)	5 cents		
(R)	10 cents		
(Y)	20 cents		
(S)	40 cents		
(W-BL)	80 cents		
(W-BR)	1 dollar - 60 cents		
* Leads	are pluged-ended		

	TABLE B					
EXAM	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	-	_	_	+	+	+
40	+	+	+	-	+	+
45	-	+	+	_	+	+
50	+	_	+	-	+	+
*	etc					

^{*} If higher initial rates are necessary, plug leads into negative field to equal total amount

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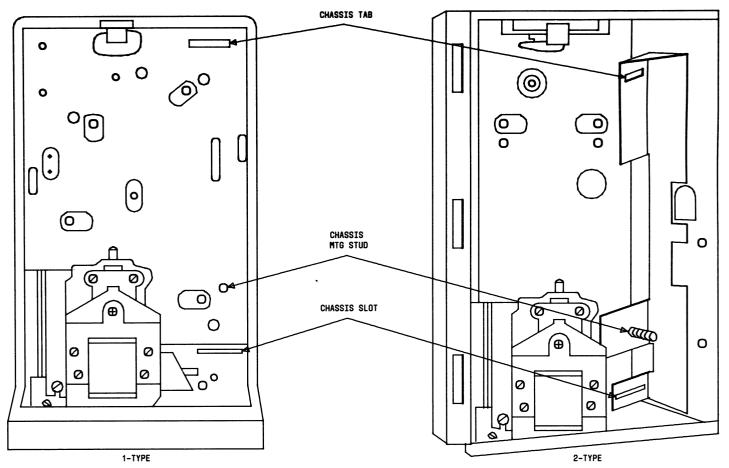


FIG. 1 — Housing and Mounting Plate Assembly

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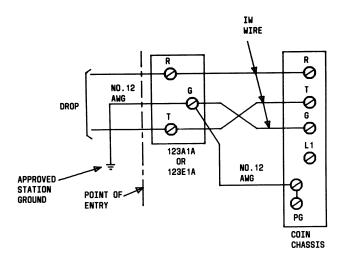


FIG. 2 - Protector Wiring When
Protector is Inside Set

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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.

[4] Lock spring in place by pushing coin chute locking lever down

AND

[5] Connect plug P2 to J2 _

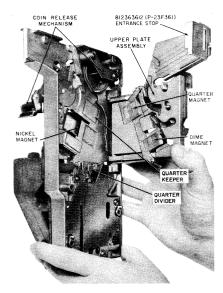


FIG. 1 - Chute

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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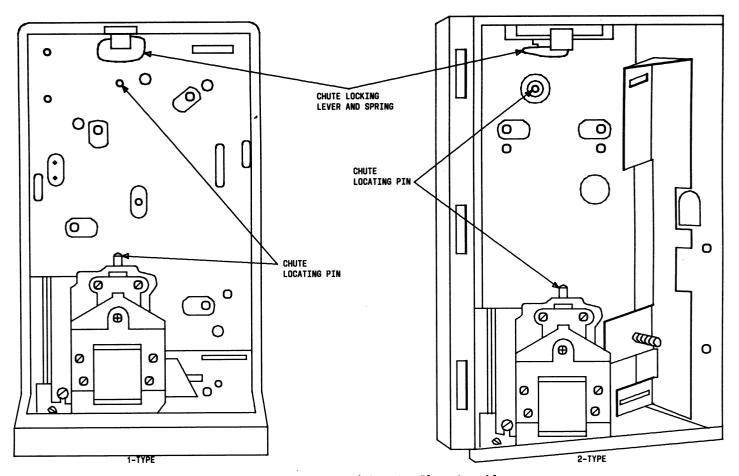
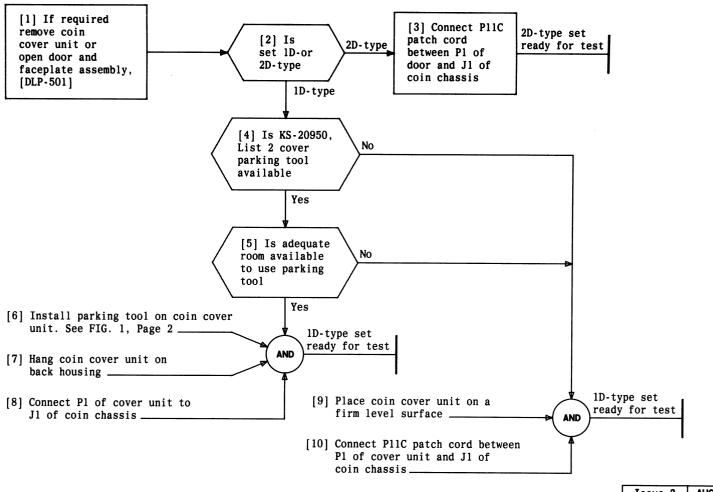


FIG. 2 - Housing and Mounting Plate Assembly

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INSTALL COIN CHUTE



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

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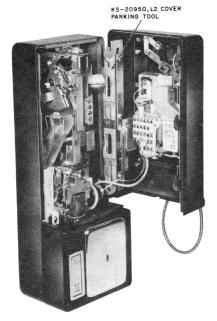
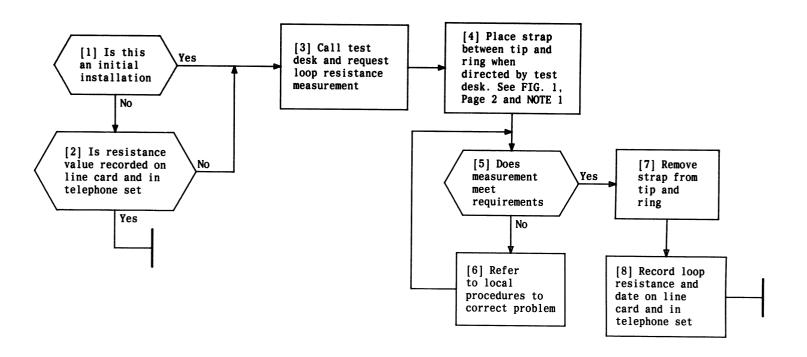
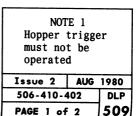


FIG. 1 — 1D-Type Coin Telephone Set With Parking Tool Installed

INSTALL	KS-20950,	LIST	2	COVER	PARKING	TOOL
OP P11C	DATCH CORE	•				

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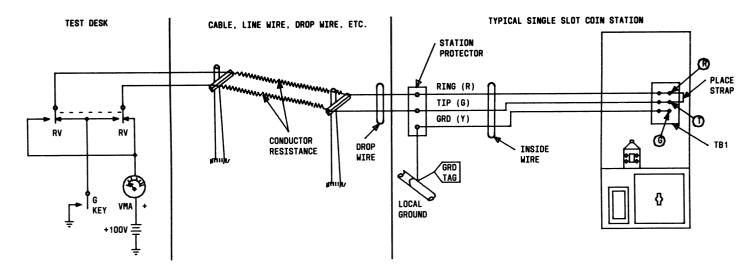
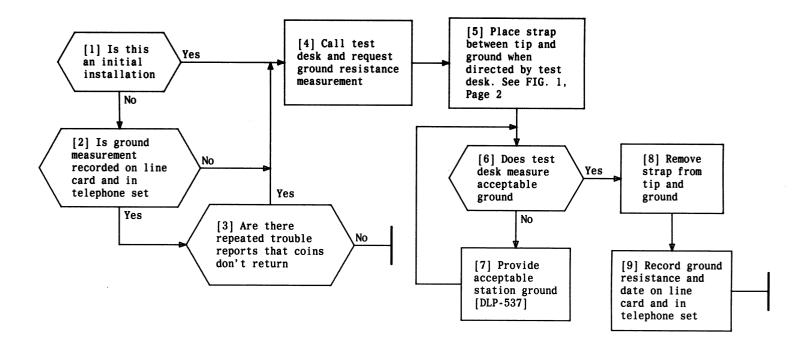


FIG. 1 — Loop Resistance Measurement

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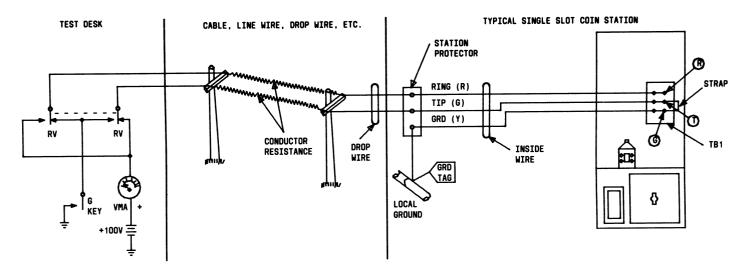
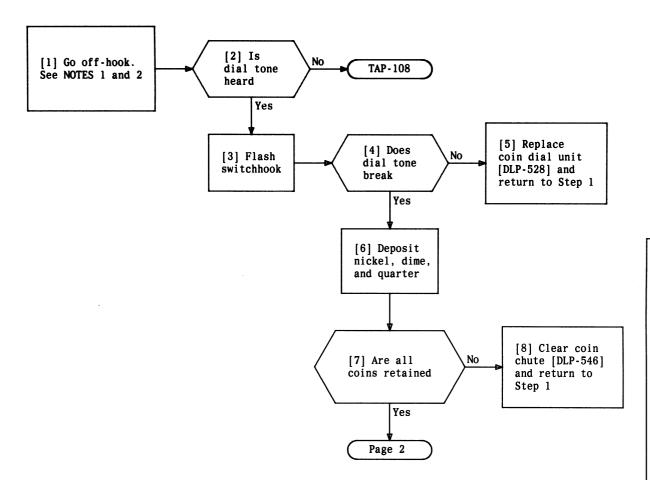


FIG. 1 — Ground Resistance Measurement

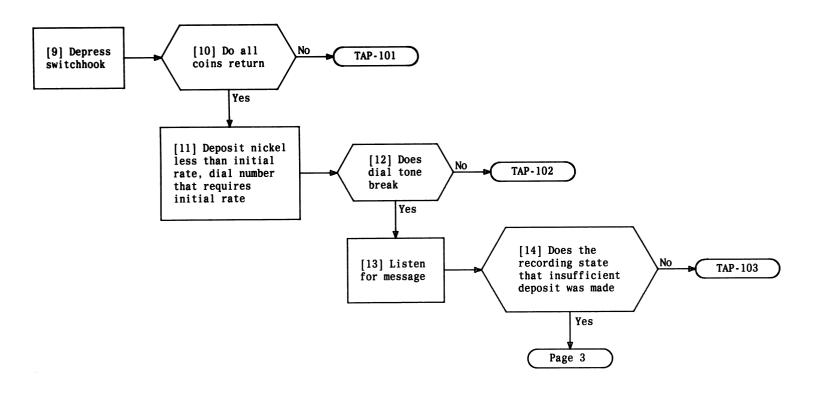
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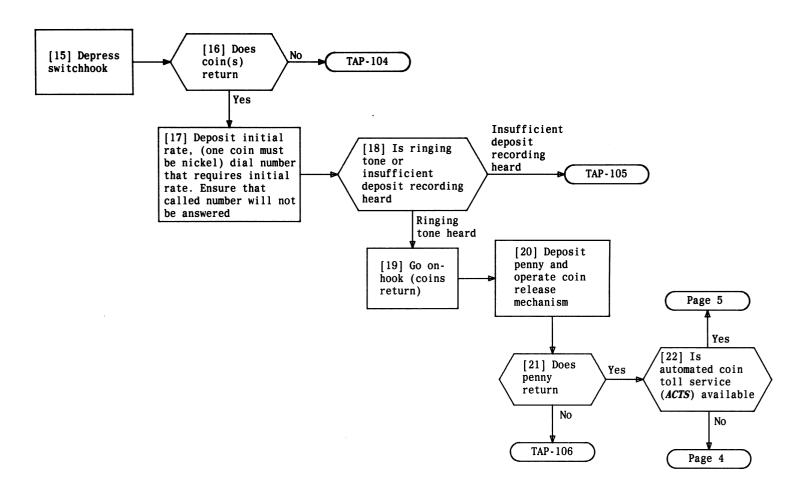
NOTES

- 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

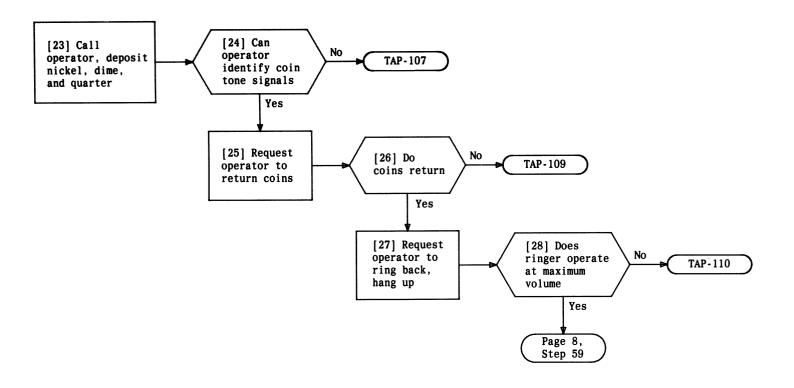
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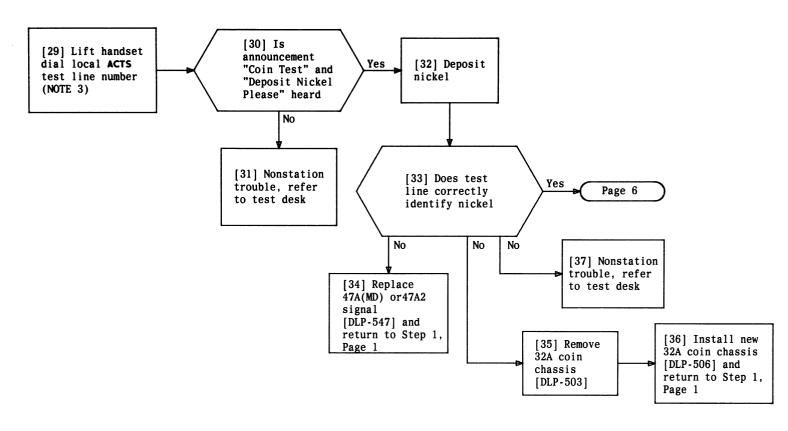
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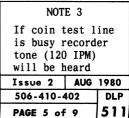


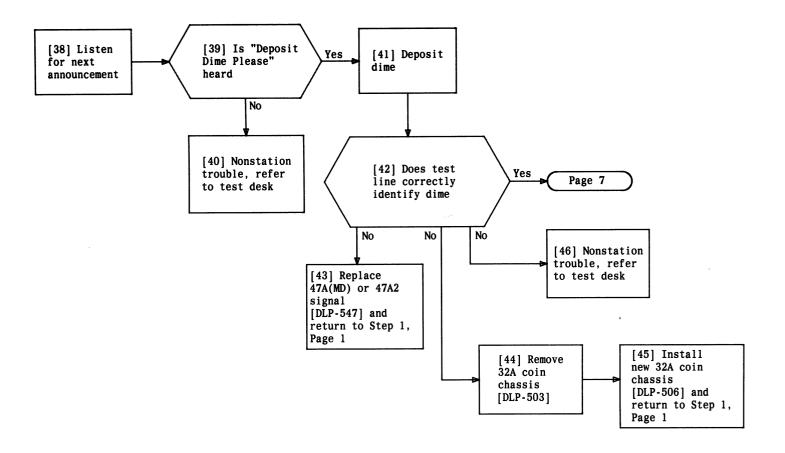
Issue 2	AUG 19	80
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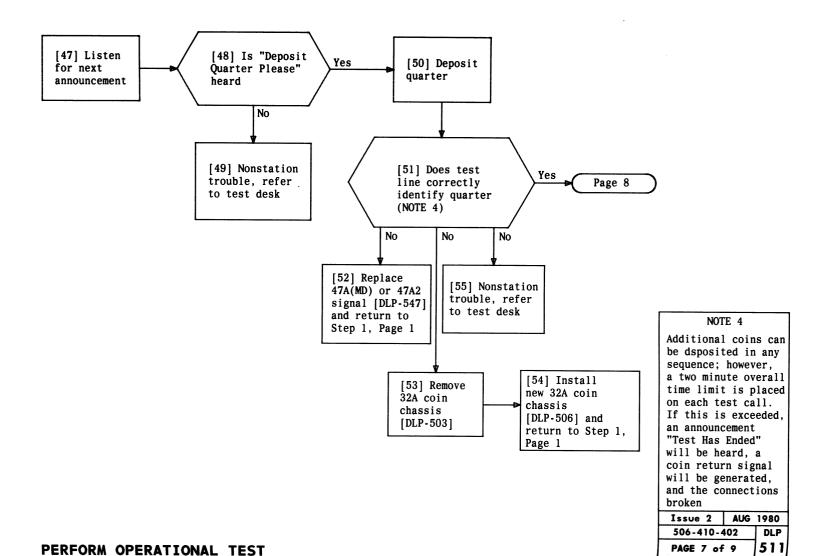
Issue 2	AUG	1980
506-410-402		DLP
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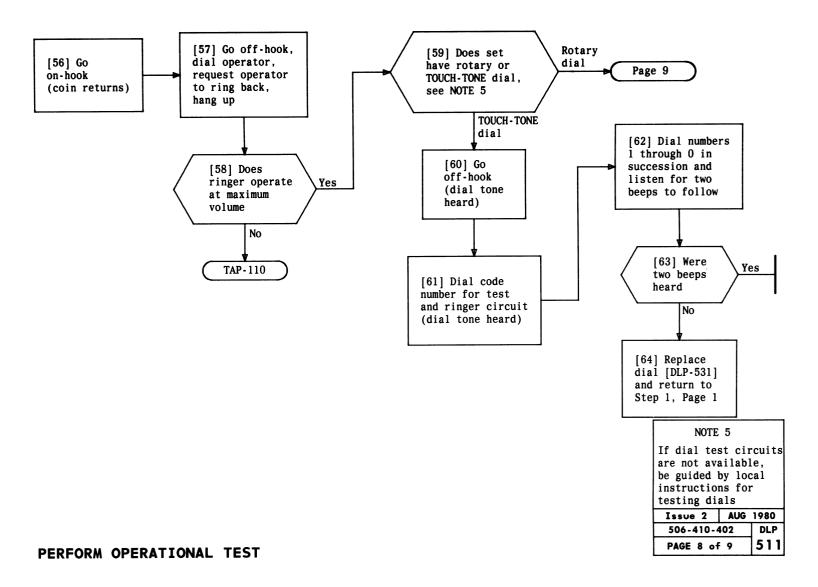






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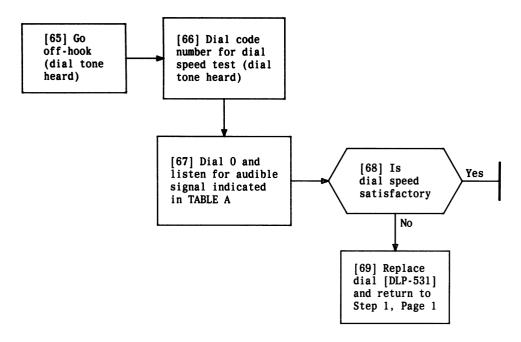
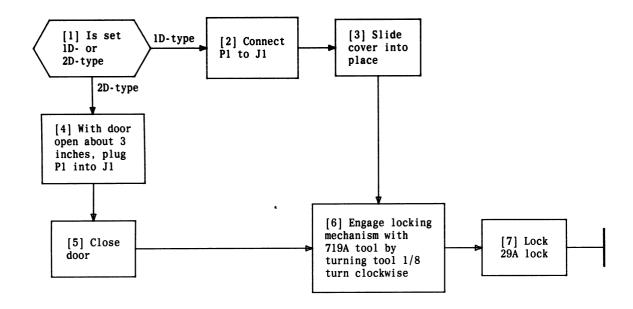


TABLE A				
AUDIBLE SIGNAL HEARD CONDITION				
Audible ringback	Dial speed satisfactory			
Rapidly interrupted dial tone	Dial speed fast			
Slowly interrupted dial tone	Dial speed slow			

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506-410-402		D	LP	,
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INSTALL COIN COVER UNIT (1D-TYPE) OR CLOSE DOOR AND FACEPLATE ASSEMBLY (2D-TYPE)

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[1] See WARNING 1. Use an allen wrench or KS-21107, List 1 releaser, turn setscrew clockwise until stop is reached. See FIG. 1 and NOTE 1

[2] Turn fingerwheel in a clockwise direction until operator hole is in the 9 position, and lift off **AND**

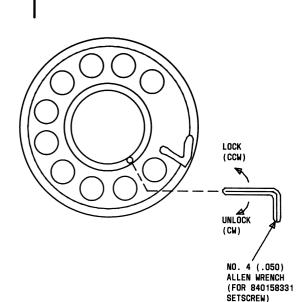


FIG. 1 — Remove Fingerwheel on 8U (MD), 8W(MD), or 8WA Dial

Dial fingerwheel is secured with a No. 4-40 setscrew **VARNING 1** When turning setscrew, 8WA dial must be in the fully run down position to prevent losing the setscrew Issue 2 AUG 1980 506-410-402 DLP 513 PAGE 1 of 1

NOTE 1

REMOVE DIAL FINGERWHEEL

[1] Ensure that setcrew
is all the way in,
clockwise

[2] Place fingerwheel on
dial with operator hole
over the 9 position

[3] Rotate the fingerwheel counterclockwise until in its normal position

AND

[4] Use an Allen wrench or KS-21107, List 1 releaser, turn setscrew counterclockwise until stop is reached. See FIG. 1 ____

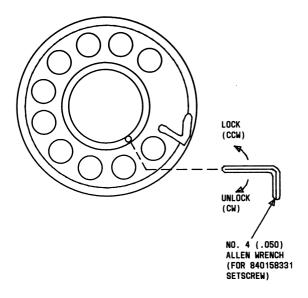


FIG. 1 — Installing Fingerwheel on 8U(MD), 8W(MD), or 8WA Dial

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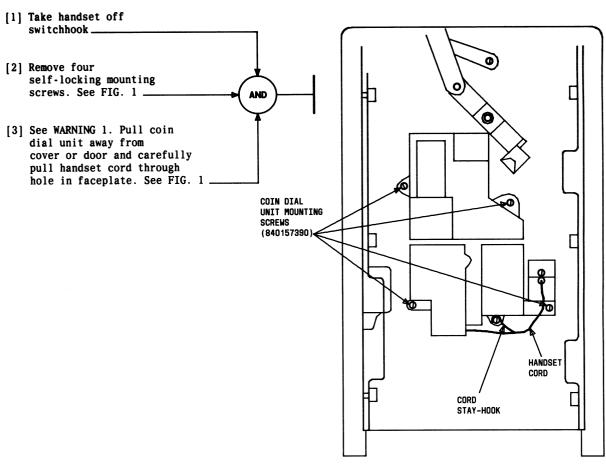


FIG. 1 — Coin Cover Unit

WARNING 1		
Armored handset cord is attached to coin dial unit		
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[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

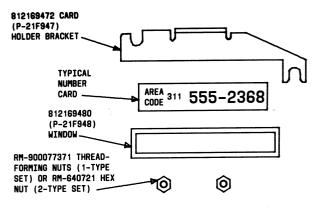


FIG. 1 — Number Card and Associated Hardware (TOUCH-TONE Set)

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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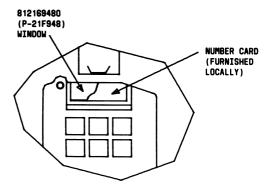


FIG. 2 — Window and Number Card Installed in Faceplate (TOUCH-TONE Set)

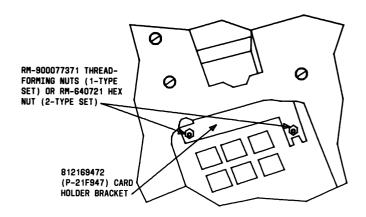
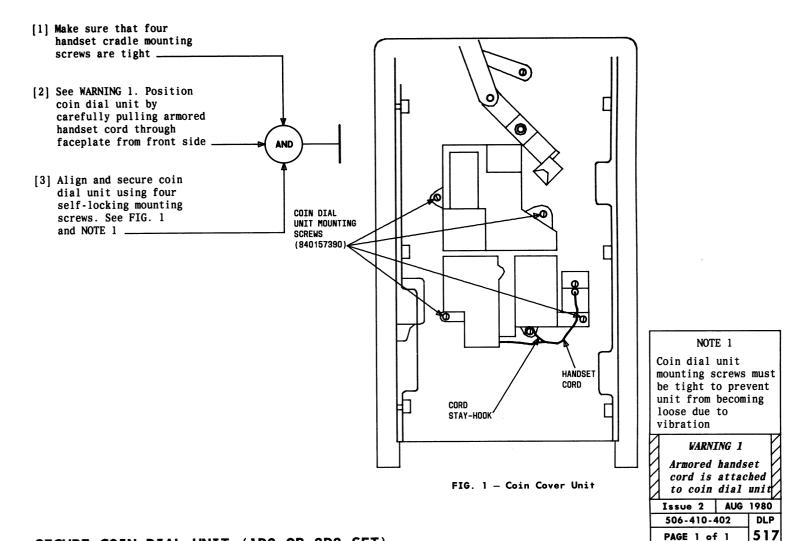


FIG. 3 — Card Holder Bracket Installed (TOUCH-TONE Set)

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

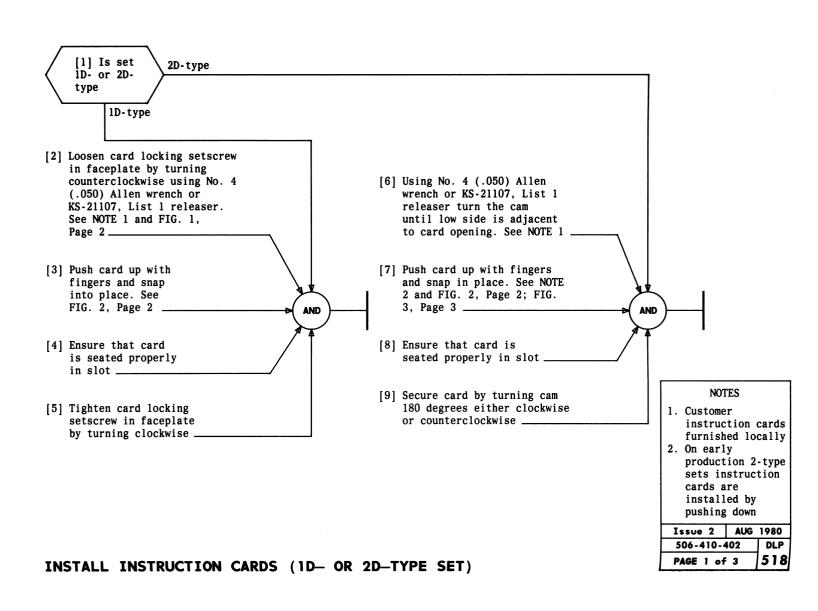




FIG. 1 — Loosening or Securing
Instruction Cards
(Current Production Sets)



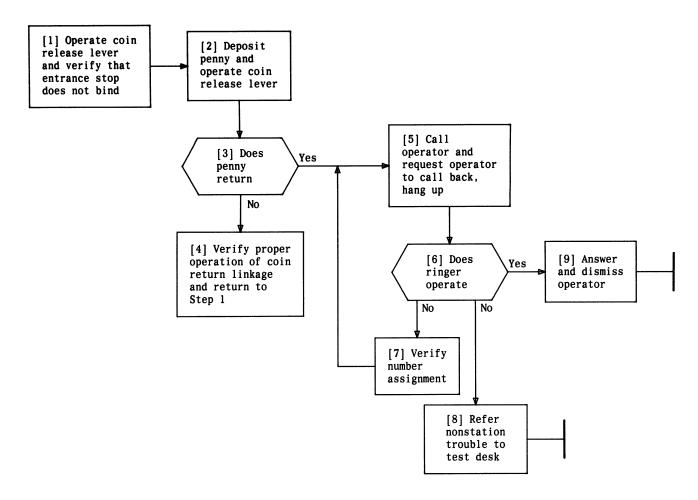
FIG. 2 — Installing Instruction Cards (All 1-Type and Current Production 2-Type)

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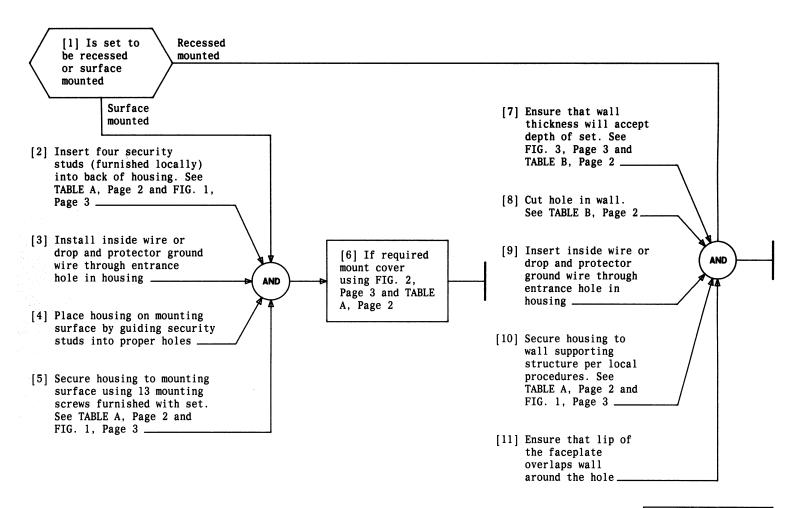


FIG. 3 — Installing Instruction Cards
In Early Production 2-Type
Set

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	TABLE A MOUNTING OF 2D-TYPE SET †					
	SECURITY STUDE	(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	•					

^{*} 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

	TABLE B*					
Height - 22-25/64 inches						
	Width - 16-9/64 inches					
	Depth - 6 inches					
•	Bottom edge of cutout should					

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

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screws 812367902 (P-23F790) are furnished with each coin telephone set for mounting to backboard

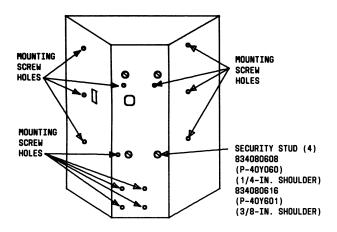


FIG. 1 — Location of Mounting Screw Holes and Security Studs In 2D-Type Set





FIG. 2 — 127A and 127B Covers

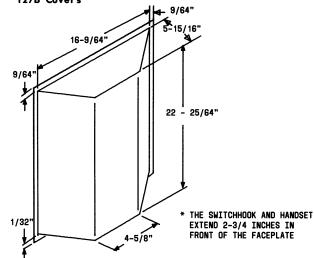
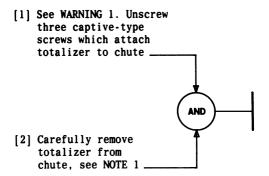
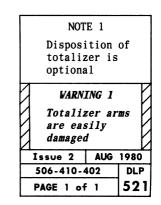
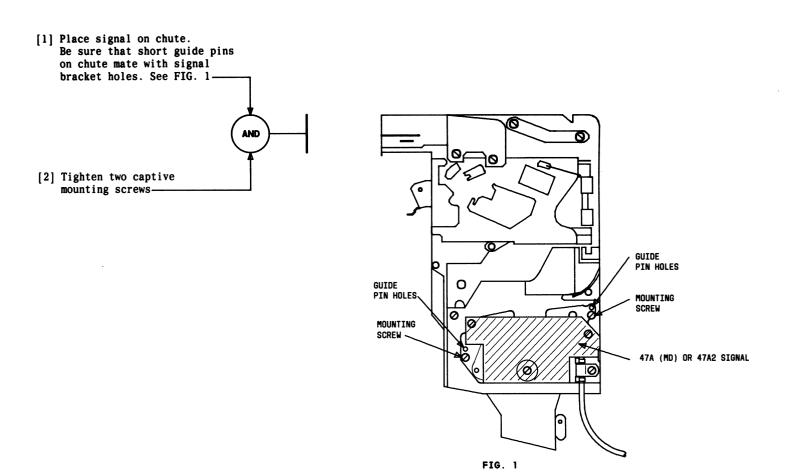


FIG. 3 — Rear View of Panel Set Showing Dimensions*

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

				TABL	E A					
			ROTAL	RY DIAL TELEPHO	NE SET CON	NECTION	IS			
		REMOVE I	FROM TB2 CONNECT TO TB2			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	0	10	10	9	
2141	W	3	3	3		0	11	11	8	
	Y	9	*	10	С	W	8	8	2	
	Y	9	13	13	h	Y	3	3	7	
	W	2	2	4	n					
Handset	R	3	3	3	0	G	13	9	12	
nanuset	BK	6	6	6	k	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	

^{*} 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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[†] Terminal 14 appears on new 60A coin dial unit only

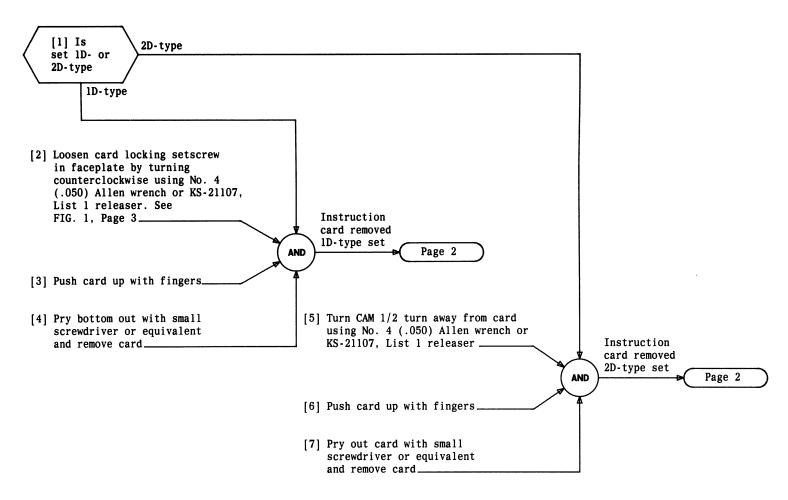
^{‡ (}R) Switchhook lead does not appear on 819042748 (P-90D274) dial and housing assembly

	TABLE B								
			"TOUCH-	TONE" DIAL TELE	EPHONE SET	CONNECTI	ONS		
	WIRE COLOR	REMOVE FROM TB2		CONNECT TO TB2			REMOVE FROM TB2		CONNECT TO TB2
COMPONENT		1A-2A-, 1C-2C- COIN-FIRST MODE	1C-2C- DIAL- TONE-FIRST MODE	1D-2D- DIAL- TONE-FIRST MODE	COMPONENT	WIRE COLOR	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
	R-G	6	6	2	i t	0	11	11	11
70A(MD) or	BK	1	1	1	c h h o o k	W	8	8	8
70B	O-BK	11	11	10		Y	3	3	3
Dial	O-R	10	10	5		G	13	9	12
	W-BL	7	7	7		S	9	9	12
	O-W	10	*	10		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					

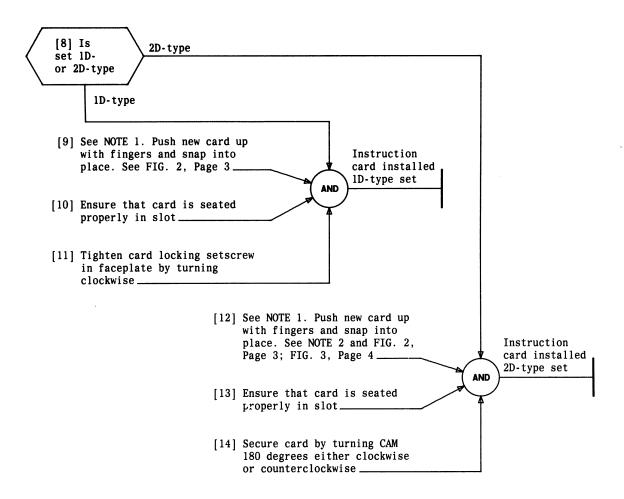
Terminal 9 on 840155402, 840155394, or 840346977 (manufactured before 8-74) dial and housing assemblies. Terminal 12 on 840347173, 61A, or 840346977 (manufactured after 8-74) dial and housing assemblies.

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[†] Terminal 14 appears on new 61A coin dial unit only



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- NOTES
 1. Customer
 instruction
 cards furnished
 locally
- 2. On eary
 production
 2-type sets
 instruction
 cards are
 installed by
 pushing down

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

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

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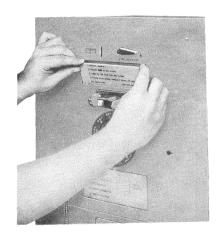


FIG. 3 — Installing Instruction Card In Early Production 2-Type Set

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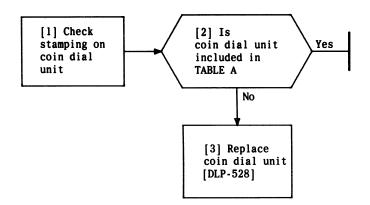
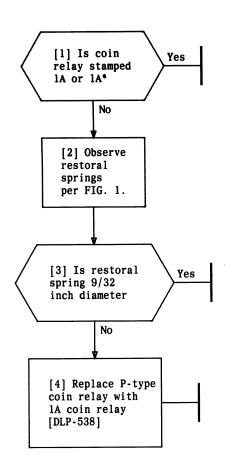


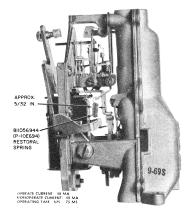
TABLE A						
COIN DIAL UNIT						
ROTARY DIAL SET "TOUCH-TONE" DIAL SET						
60A	61A					
841317241	840346977					
841317258	840347173					
819042748 (P-90D274)	840155402					
840152227	840155394					

VERIFY COMPATIBILITY OF COIN DIAL UNIT WITH 1D— OR 2D—TYPE SET

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NONCOMPATABLE RELAY



COMPATABLE RELAY

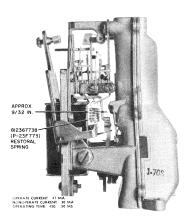
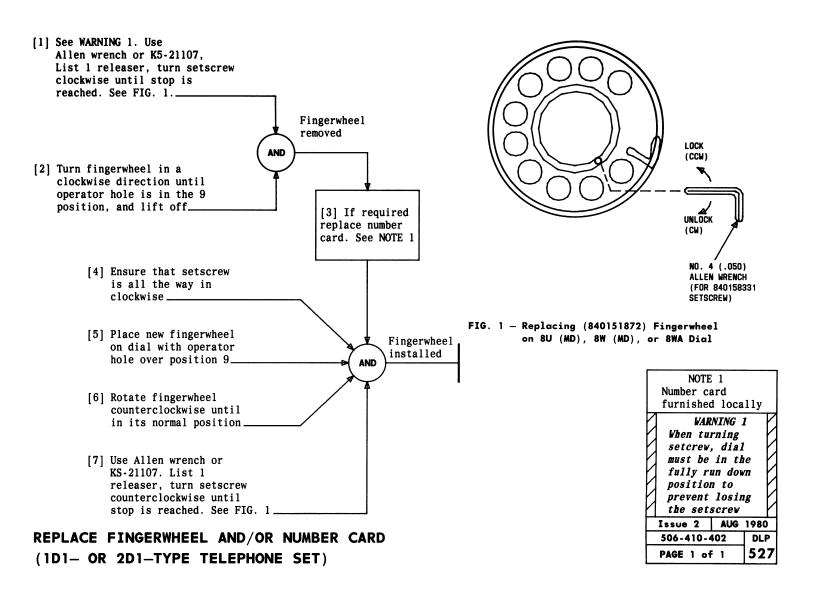
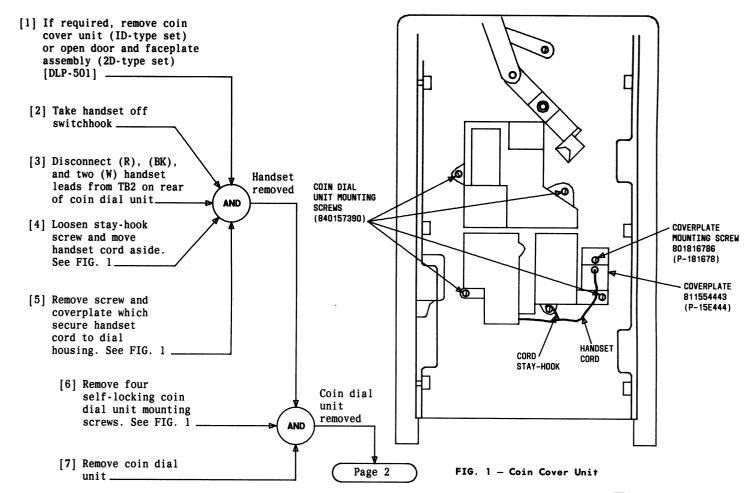


FIG. 1 — Coin Relays

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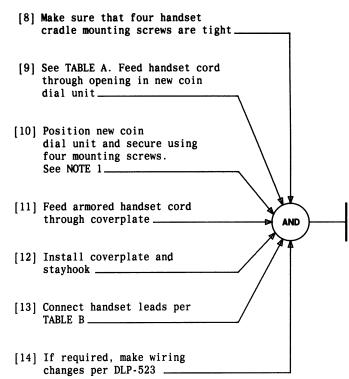
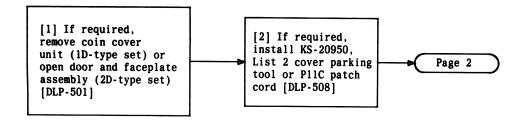


TABLE A			
COIN TEL SET	COIN DIAL UNIT		
1D1	60A3-44, 60A2-44, or 841317241		
1D2	61A3-44, 61A2-44, or 840346977		
2D1 (Brushed Stainless)	60A3-44, 60A2-44 (Chrome), or 841317241		
2D1 (Bronze)	60A3-84, 60A2-84, (Bronze), or 841317258		
2D2 (Brush Stainless)	61A3-44, 61A2-44, (Chrome), or 840346977	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

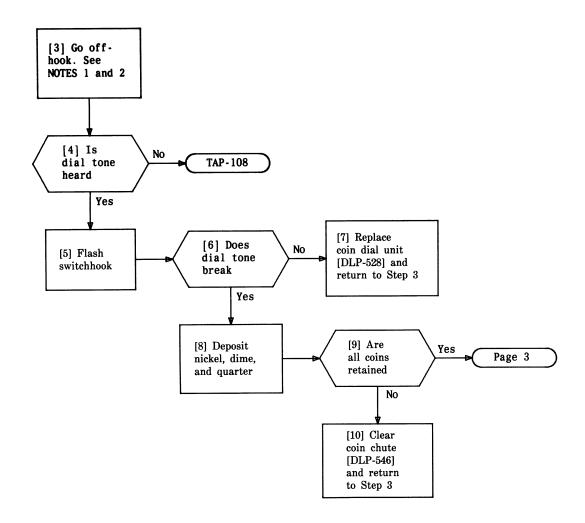
* 60A3- or 61A3- coin dial units are preferred for replacement

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

Issue 2 AUG 1980 506-410-402 DLP PAGE 2 of 2 528	NOTE 1 Four coin dial unit mounting screws must be tight to prevent unit from becoming loose due to vibration		
	Issue 2 AUG 1980		
PAGE 2 of 2 528	506-410-402 DLP		
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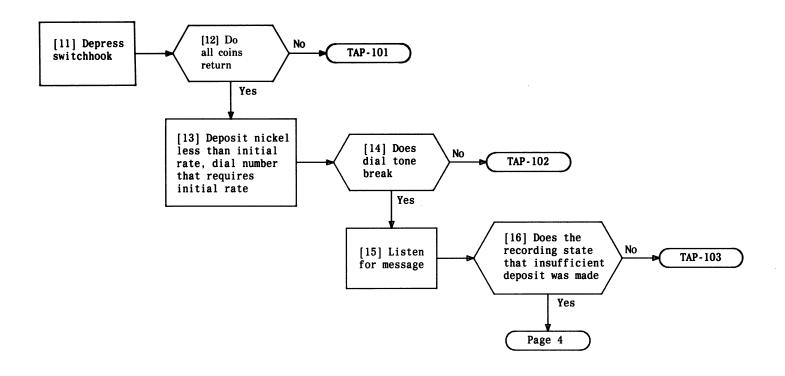
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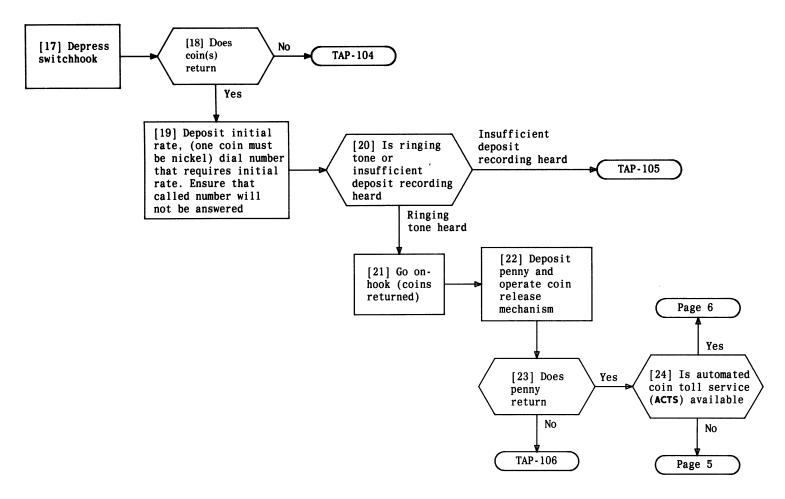
NOTES

- 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

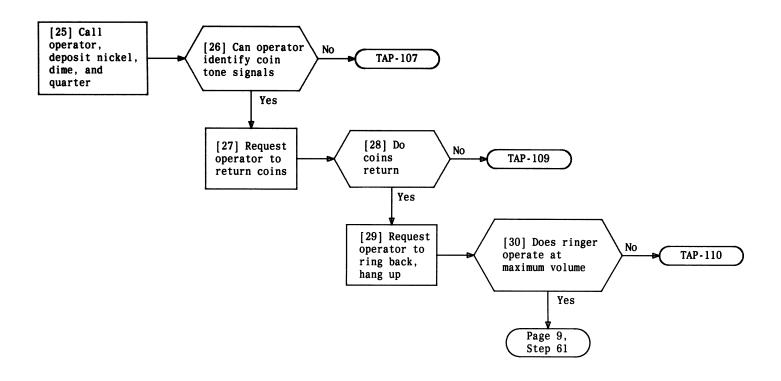
Issue 2	AUG 1980
506-410-4	102 DLP
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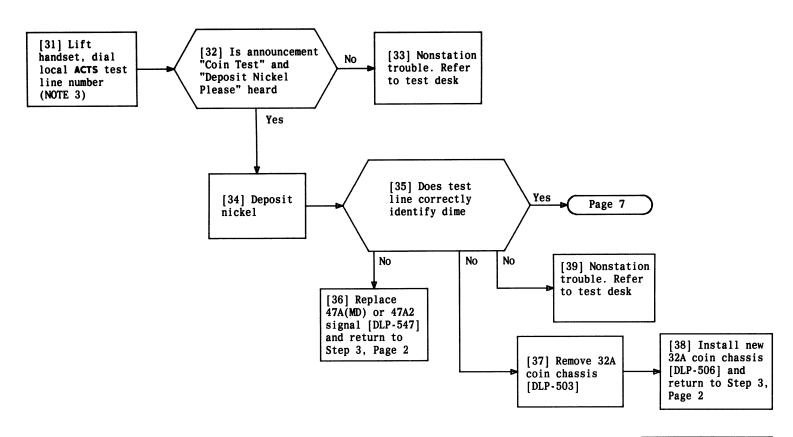
Issue 2	AUG 1980
506-410-4	102 DLP
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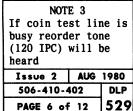


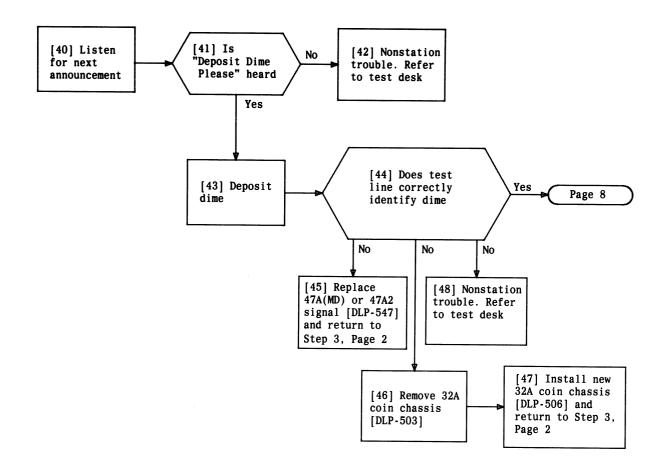
Issue 2	AUG 198	0
506-410-4	102 DL	P
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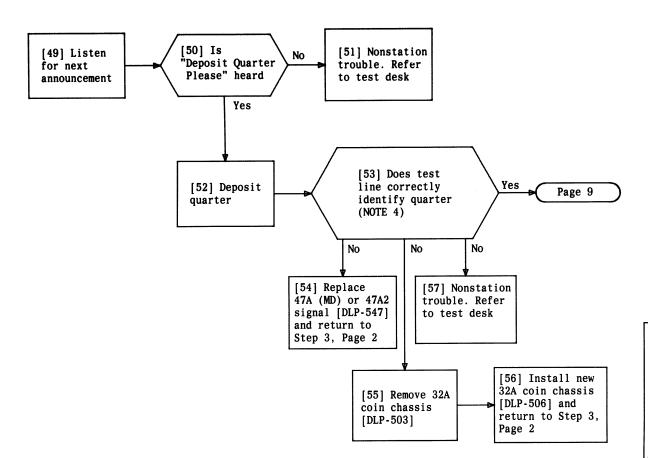
Issue 2	AUG	1980
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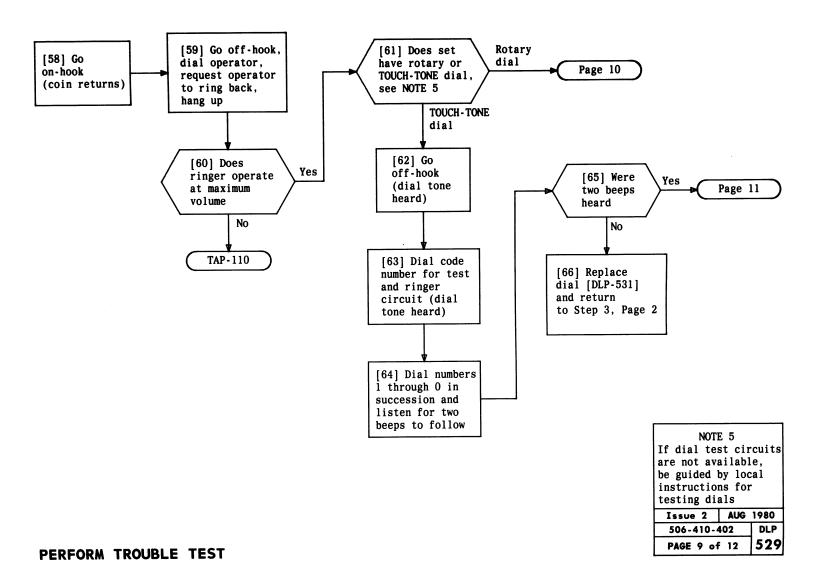


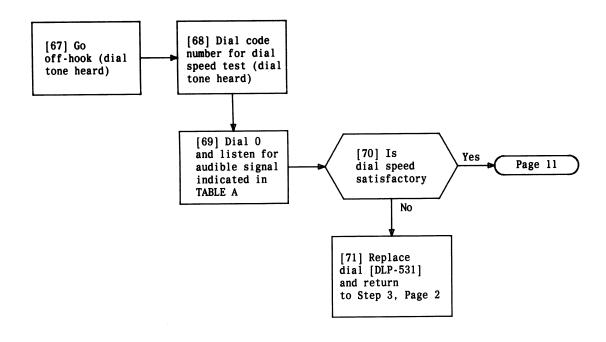
Issue 2	AUG	1980
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NOTE 4
Additional coins can be deposited in any sequence; however, a two minute overall time limit is placed on each test call. If this is exceeded, an announcement "Test Has Ended" will be heard. A coin return signal will be generated,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

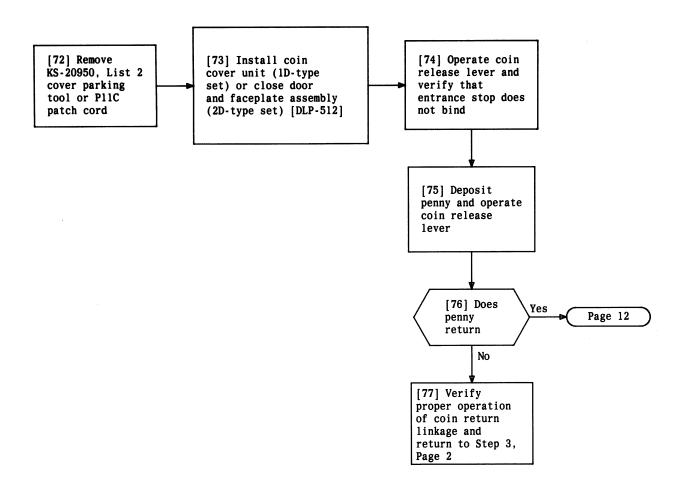
Issue 2	AUG	1980
506-410-402		DLP
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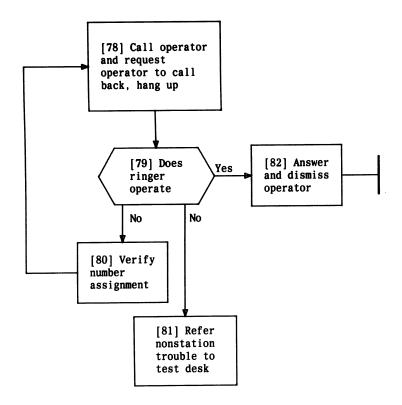


T	ABLE A
AUDIBLE SIGNAL HEARD	CONDITION
Audible ringback	Dial speed satisfactory
Rapidly interrupted dial tone	Dial speed fast
Slowly interrupted dial tone	Dial speed slow

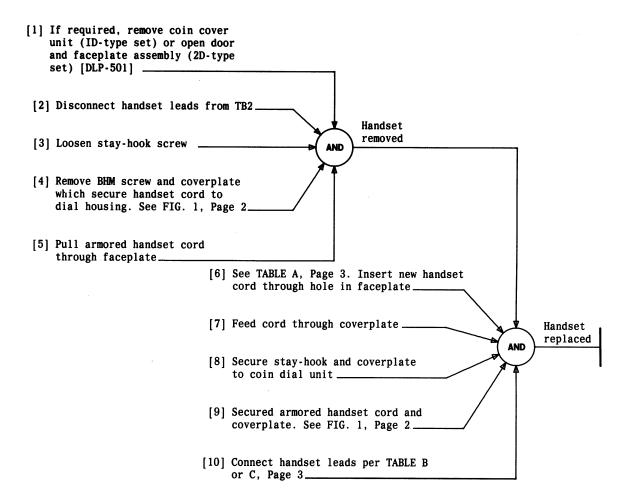
Issue 2	AUG 1980
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Issue 2	AUG 1980
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Issue 2	AUG 1980
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REPLACE HANDSET

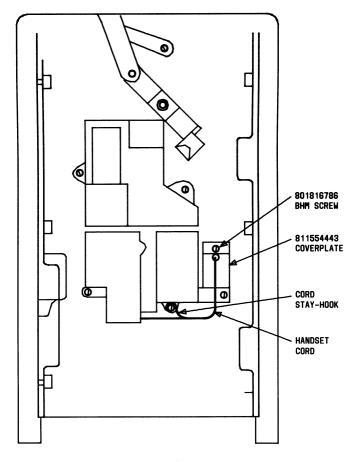


FIG. 1

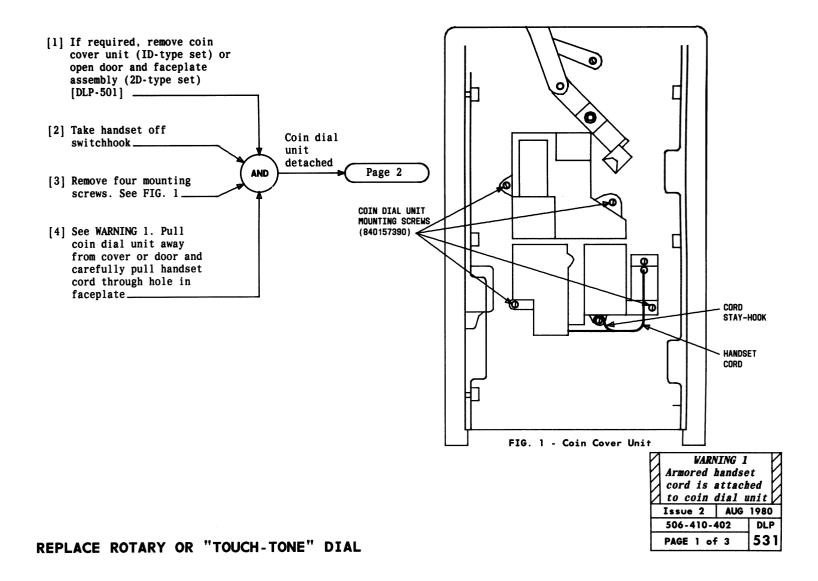
Issue 2	AUG	1980
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TABL	E A
SET CODE	HANDSET* CODE
1D1/1D2 All Sets	G3AH-52 or
2D1/2D2-67	G3AK-52
2D1/2D2-84	G3AH-03 or G3AK-03
* Standard shown. A G1 handset is	3D amplifier

	TABLE E	3
GSAH	-52 OR G3AK	-52 HANDSET
WIRE	CON	ECT TO
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	
WIDE	WIRE CONNECT TO	
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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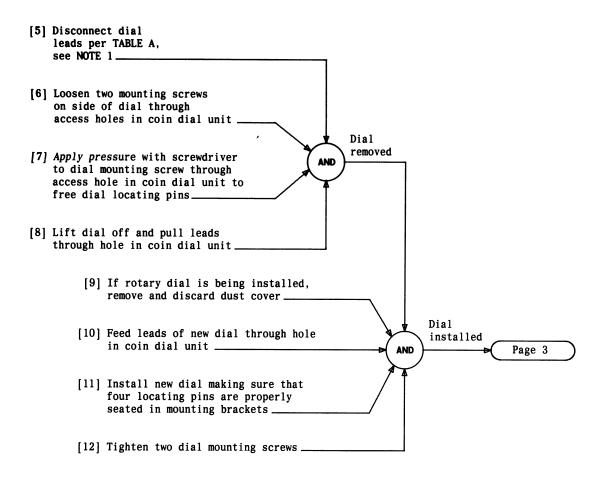


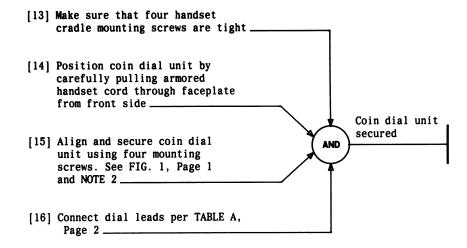
	TABLE A	
DIAL	CONNECTIO	NS
DIAL	WIRE COLOR	TB2
	BL	11
8U(MD),	BL or G	8
8W(MD), or	W	4
8WA	W	3
Rotary Dial	Y	10
	Y	13
	G	1
	W	4
	R	3
70A(MD) or	R-G	2
70B	BK	1
TOUCH-	0 - BK	10
TONE Dial	0-R	5
	W-BL	7
	0-W	10
	V	13

	TE 1
It is not a	
	ect handset
when remov	ing dial
	ing dial

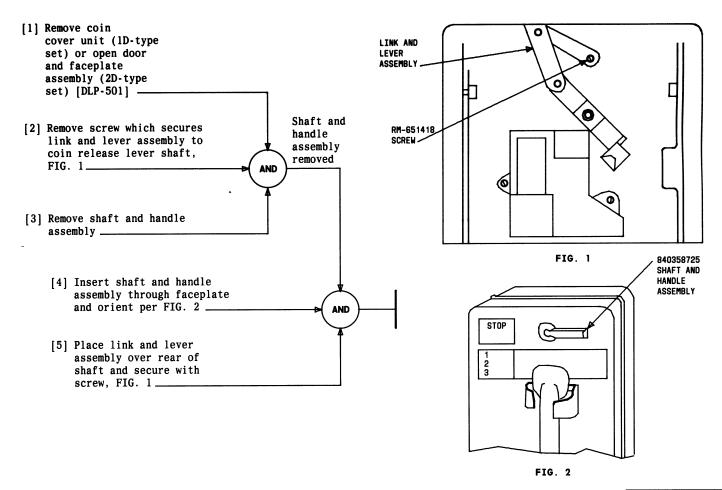
PAGE 2 of 3

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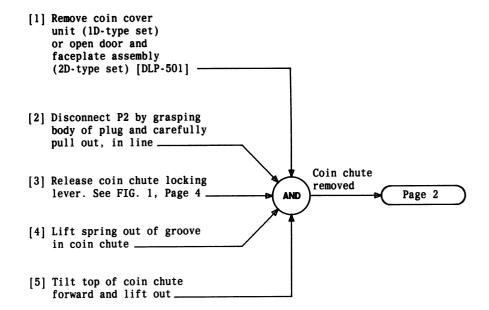
REPLACE ROTARY OR "TOUCH-TONE" DIAL



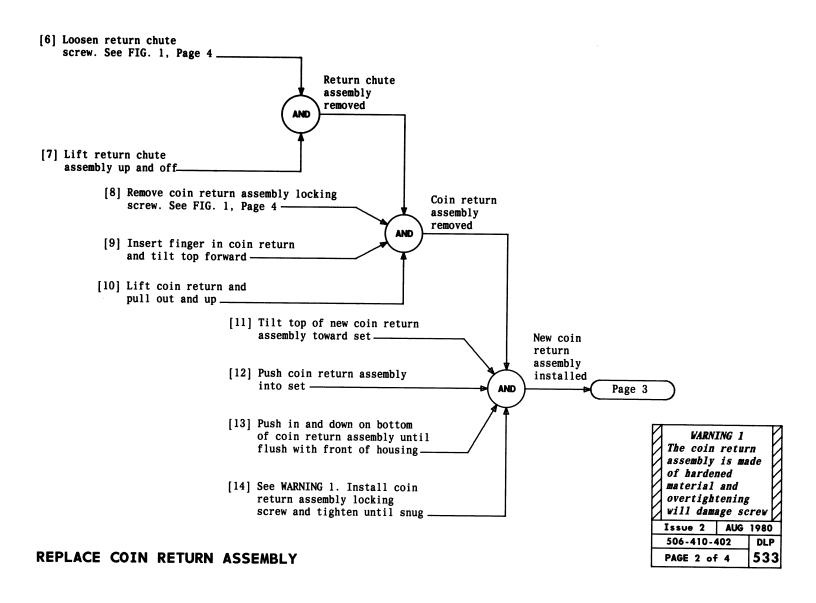
NOTE 2		
Four coin dial u	ınit	
mounting screws		
be tight to prevent		
unit from becoming		
loose due to		
vibration		
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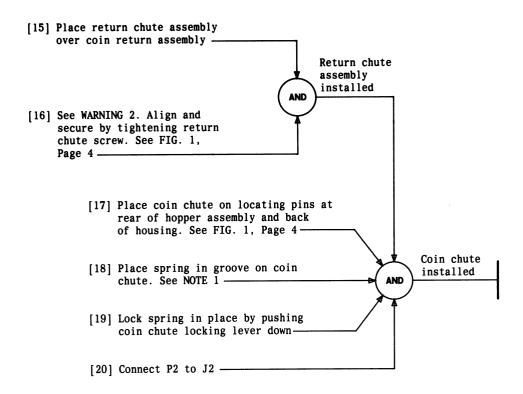


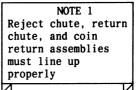
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WARNING 2
Two tabs on right
side of return
chute must be
seated properly
on lip on left
side of hopper
and key-hole slot
on front of return
chute (plastic
version only) must
be completely down
behind mounting
screw

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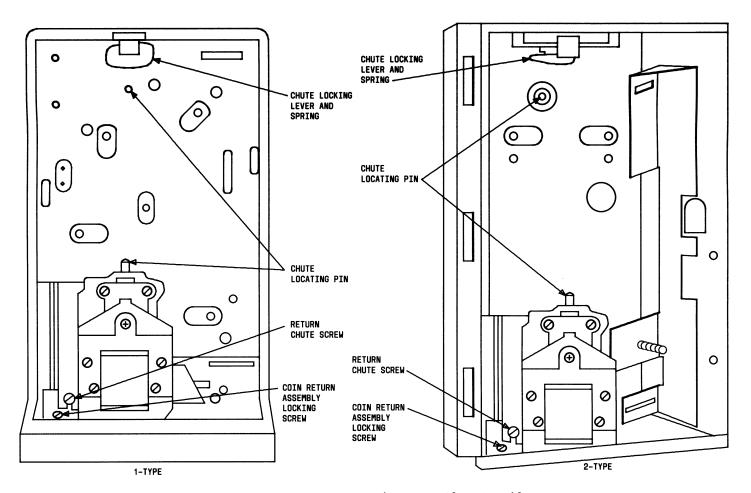
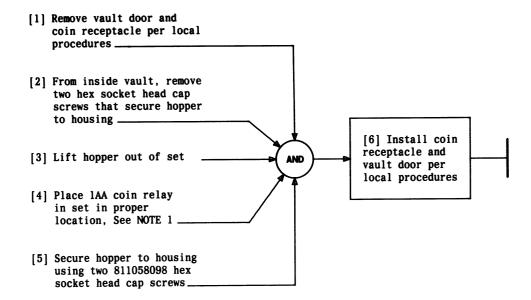


FIG. 1 - Housing and Mounting Plate Assembly

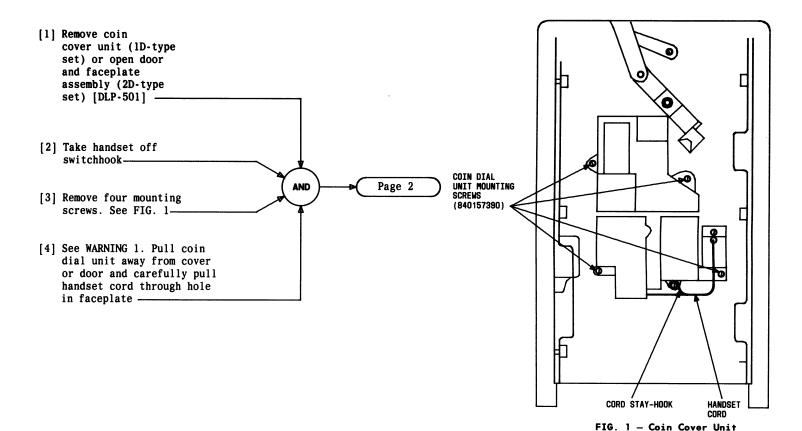
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506-410-402		DLP
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REPLACE COIN RETURN ASSEMBLY



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

NOTE 1		
lAA coin relay		
consists of 1A		
coin relay and		
811557172 (P-15E717)		
coin hopper		
assembly		
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WARNING 1 Armored handset cord is attached to coin dial unit

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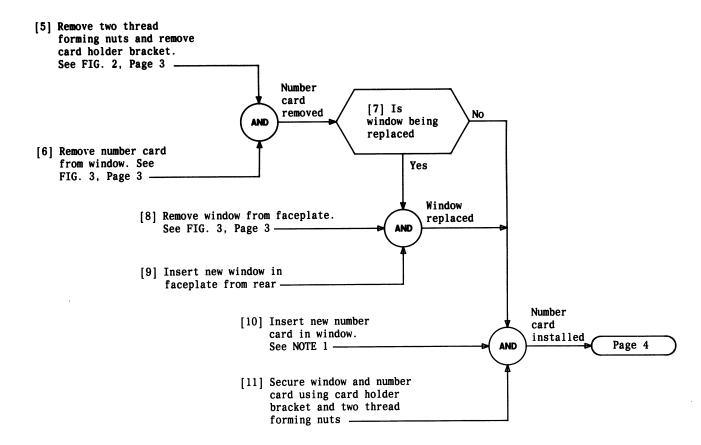
DLP 535

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



REPLACE N	UMBER (CARD A	AND/OR	WINDOW	IN
"TOUCH - TO	NE" DI	AL TEL	EPHONE	SET	

Number care separately	d ordered
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MOTE 1

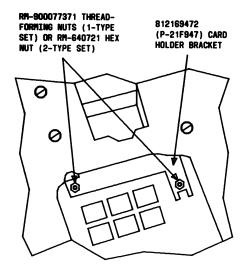


FIG. 2 — Card Holder Bracket Installed (TOUCH-TONE Set)

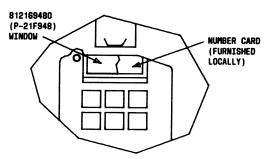
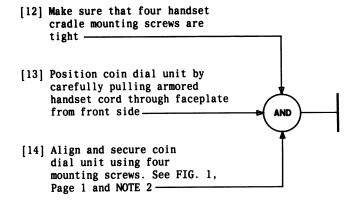


FIG. 3 — Window and Number Card Installed in Faceplate (TOUCH-TONE Set)

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

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

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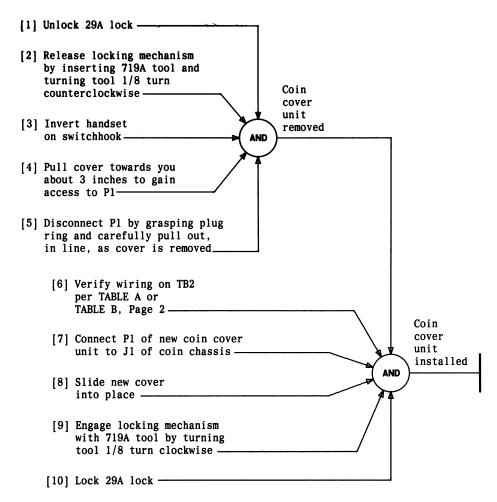


TABLE A					
ROTARY DIAL TELEPHONE SET CONNECTIONS					
COMPONENT	WIRE COLOR	TB2	COMPONENT	WIRE COLOR	TB2
	ВĹ	11		BR	10
	BL or G	8		BR	10
Dial	W	4	S w	0	9
Diai	W	3	i	0	8
	Y	10	t c	W	2
	Y	13	h	Y	7
	W	4	h O	G	12
Handset	R	3	0	S	12
nandset	BK	6	k	S-W	14*
	W	7		R†	12
Strap	S	2 to 3			

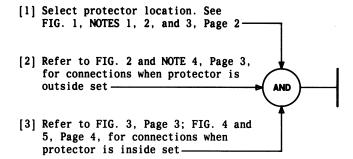
- * Terminal 14 only appears on new 60A coin dial units
- † (R) switchhook lead does not appear on 819042748 (P-90D274) dial and housing assemblies

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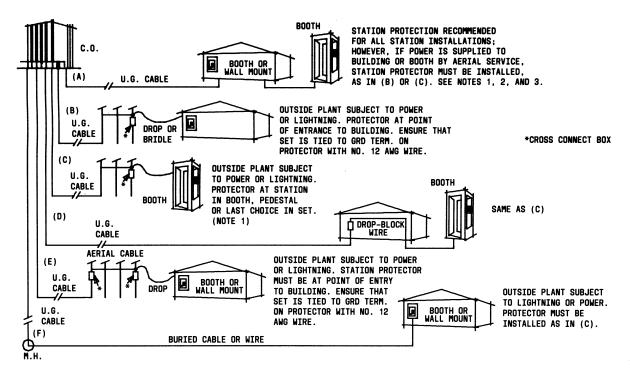
TABLE A					
"TOUCH-TONE" DIAL TELEPHONE SET CONNECTIONS					
COMPONENT	WIRE COLOR	TB2	COMPONENT	WIRE COLOR	TB2
	G	1	Handset	BK	6
	W	4	(Contd)	W	8
	R	3		BR	11
504 (MD)	R-G	2	_ [BR	9
70A(MD) or 70B Dial	BK	1	S W	0	9
	O-BK	10	i	0	11
	O-R	5	t c	W	8
	W-BL	7	h	Y	3
	0-W	10	h	G	12
	V	13	0	S	12
Handset	W	7	k	S-W	14*
nanuset	R	3	1	R	12
* Terminal 14 only appears on new 61A					

coin dial units

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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 AWG 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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VERIFY PROTECTION AND GROUND CONNEC	PROTECTI	ON AND	GROUND	CONNECTIONS
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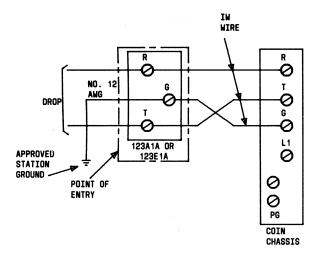


FIG. 2 - Protector Wiring When Protector is Outside Set

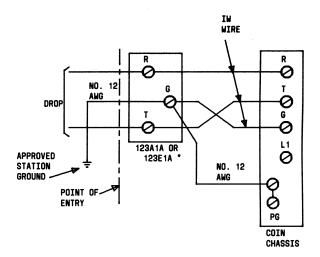


FIG. 3 - Protector Wiring When Protector is Inside Set

IN Buckte Cright.
Part.

Corchect Bank Cinety

if y+B weether 600 ft Mark

NOTE 4 When wiring protector outside of set the maximum Tength of the (Y) 22 or 24 AWG IW signal ground is 195 feet

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VERIFY PROTECTION AND GROUND CONNECTIONS

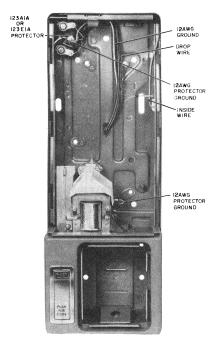


FIG. 4 - Protector Mounted in 1D-Type Set

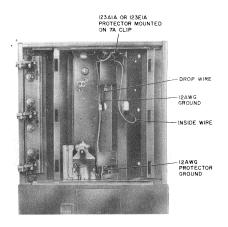
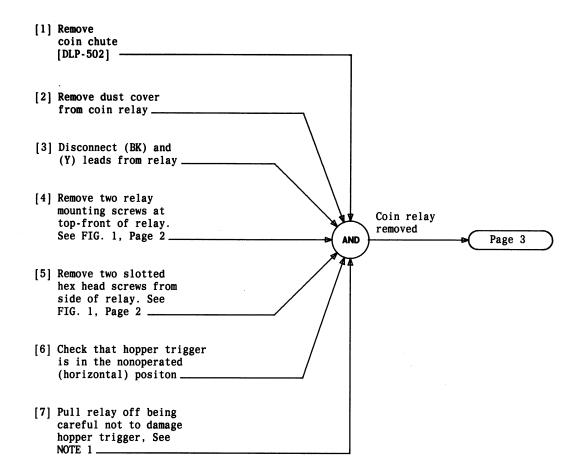


FIG. 5 - Protector Mounted in 2D-Type Set

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Disposit defective relay is	e coin	
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NOTE 1

REPLACE COIN RELAY

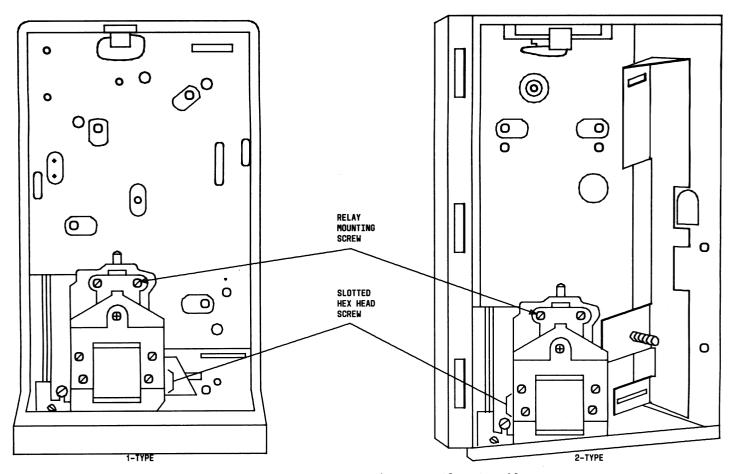
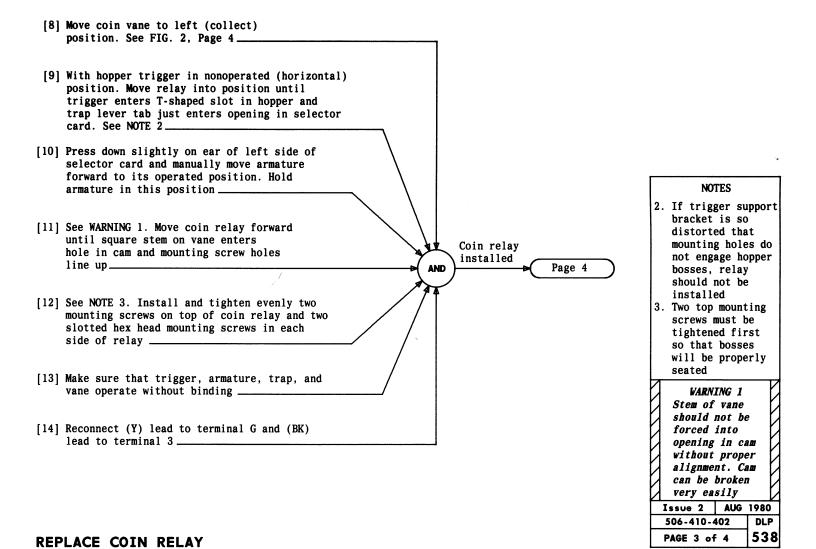
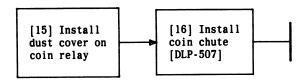


FIG. 1 - Housing and Mounting Plate Assembly

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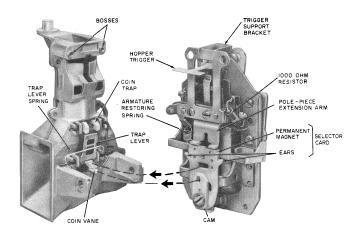
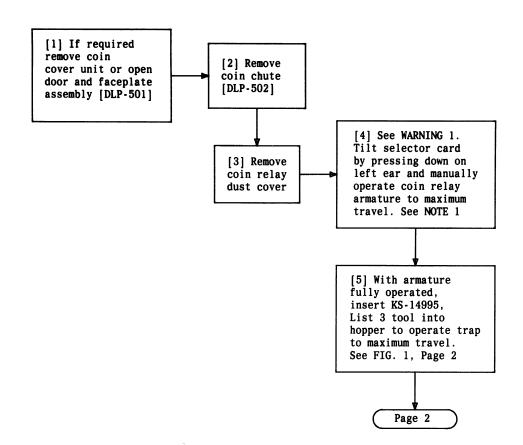
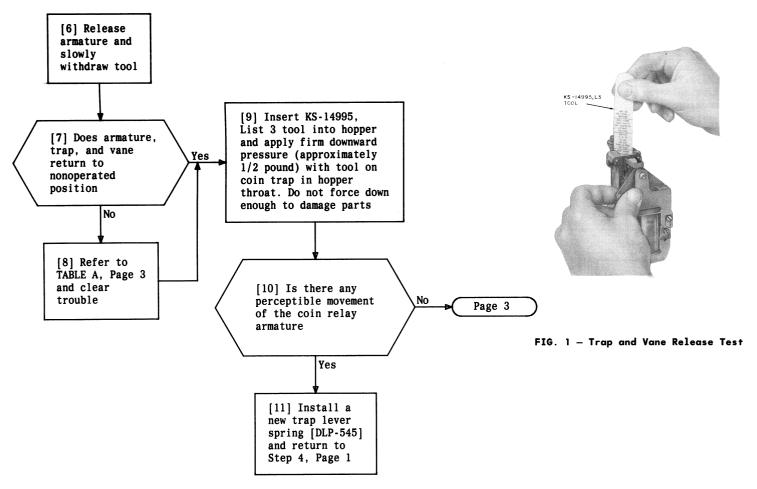


FIG. 2 - Coin Hopper and Rear View of Coin Relay

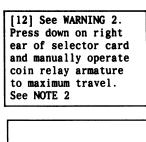
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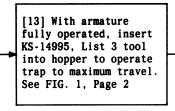






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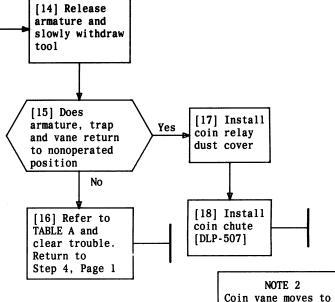


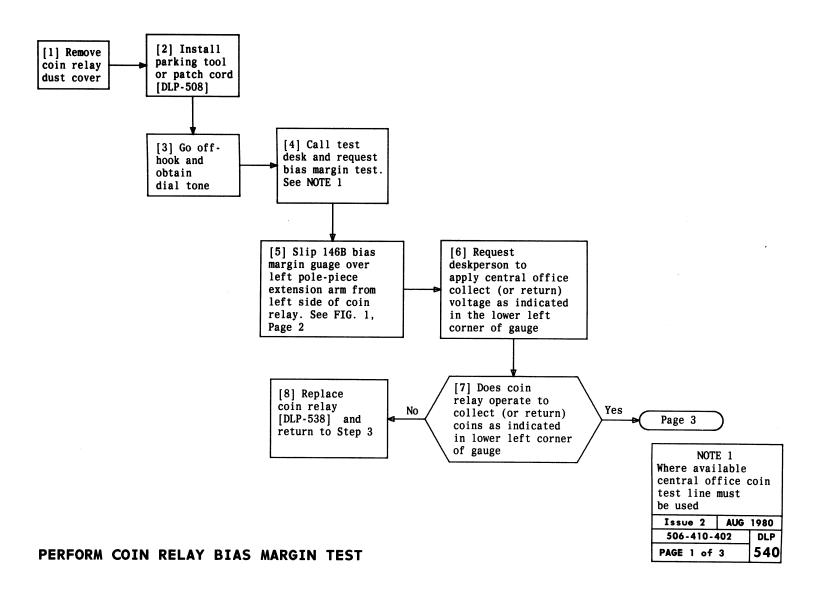
TABLE A Trouble analysis					
FAILURE	POSSIBLE CAUSE	REMEDIAL ACTION	PROCEDURE NUMBER		
Armature, trap, or vane does not return to normal	Coin relay binding	Loose mounting screws, realign relay. Tighten screws			
		2. Replace coin relay	DLP-538		
Vane does not restore properly	Vane binds or vane broken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

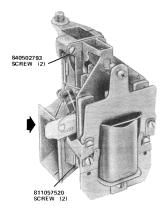
refund (right)
position, coin trap
moves downward

WARNING 2

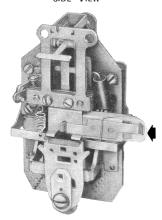
If selector tab
is not tilted,
jamming will
occur between
selector card and
cam engaging
surfaces

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SIDE VIEW

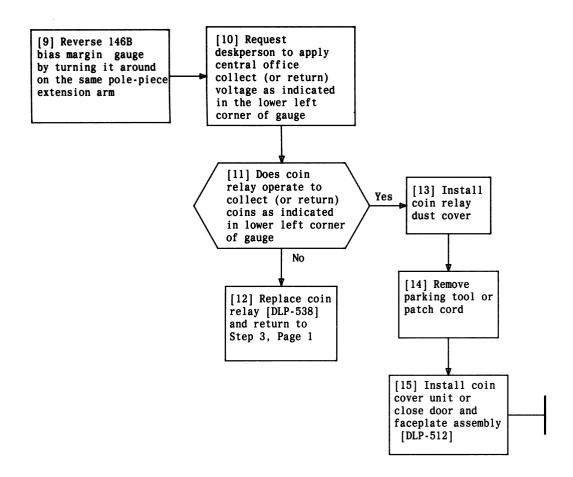


BACK VIEW

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

PERFORM COIN RELAY BIAS MARGIN 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

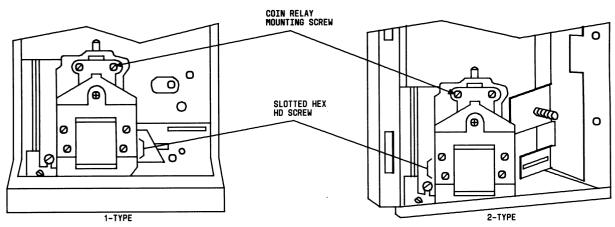
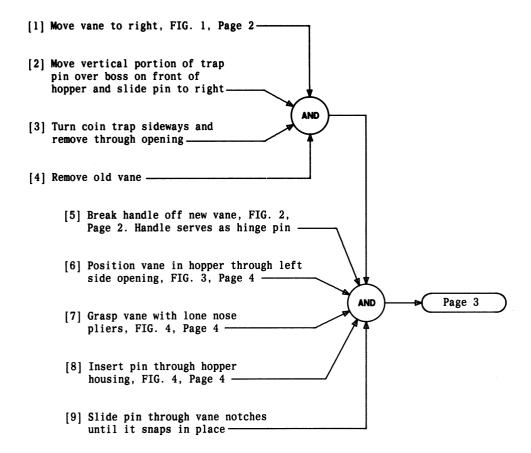


FIG. 1 — Housing and Mounting Plate Assembly

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REMOVE COIN RELAY FROM HOPPER



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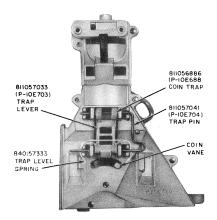


FIG. 1 — Coin Trap and Trap Lever Assembly

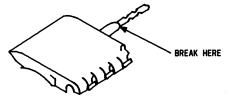
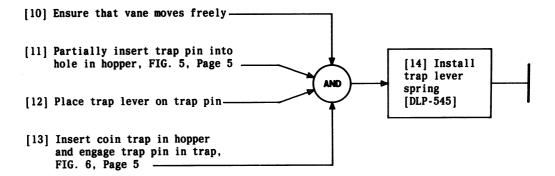


FIG. 2 - 840360572 Replaceable Coin Vane

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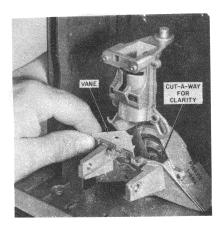


FIG. 3 — Inserting Vane

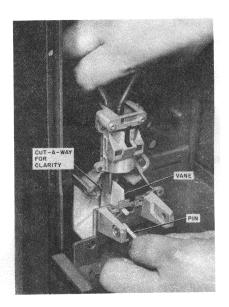


FIG. 4 — Installing Pin in Vane

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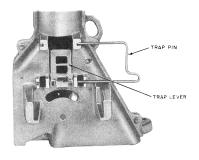


FIG. 5 — Placing Trap-Lever Pin in Hopper

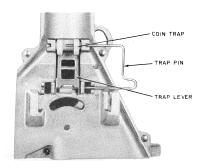
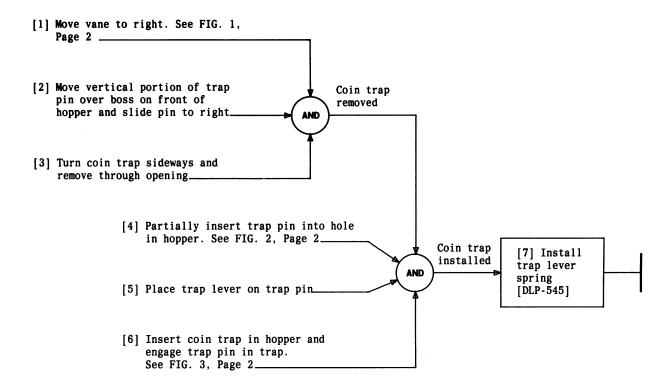


FIG. 6 — Placing Coin Trap in Hopper

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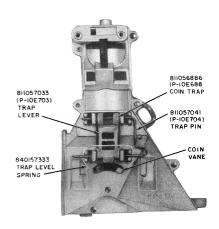


FIG. 1 — Coin Trap and Trap Lever Assembly

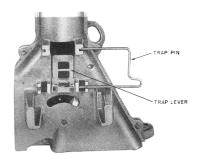


FIG. 2 — Placing Trap Lever Pin in Hopper

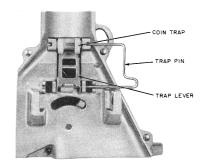
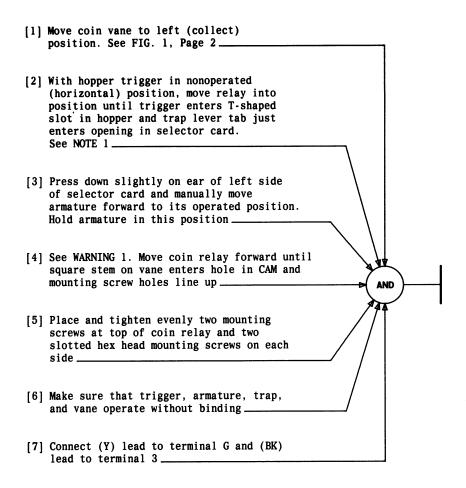


FIG. 3 — Placing Coin Trap in Hopper

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NOTE 1 If trigger support

bracket is so

distorted that

installed

mounting holes do

not engage hopper bosses, relay should not be

WARNING 1
If stem of vane
is forced into

opening in cam

without proper alignment, cam

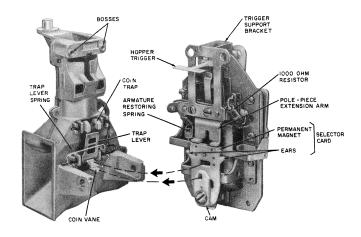


FIG. 1 — Coin Hopper and Rear View of Coin Relay

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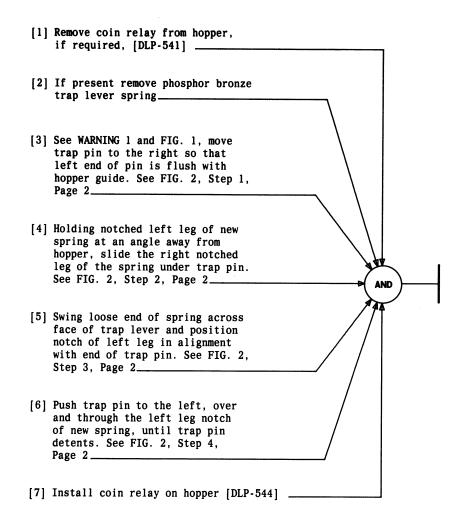
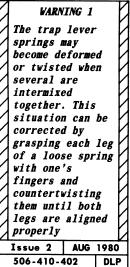




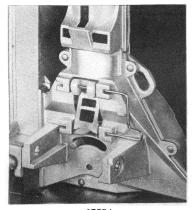
FIG. 1 - 840157333 Trap Lever Spring

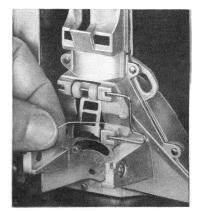


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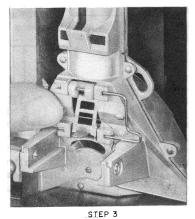
INSTALL 840157333 TRAP LEVER SPRING





STEPI

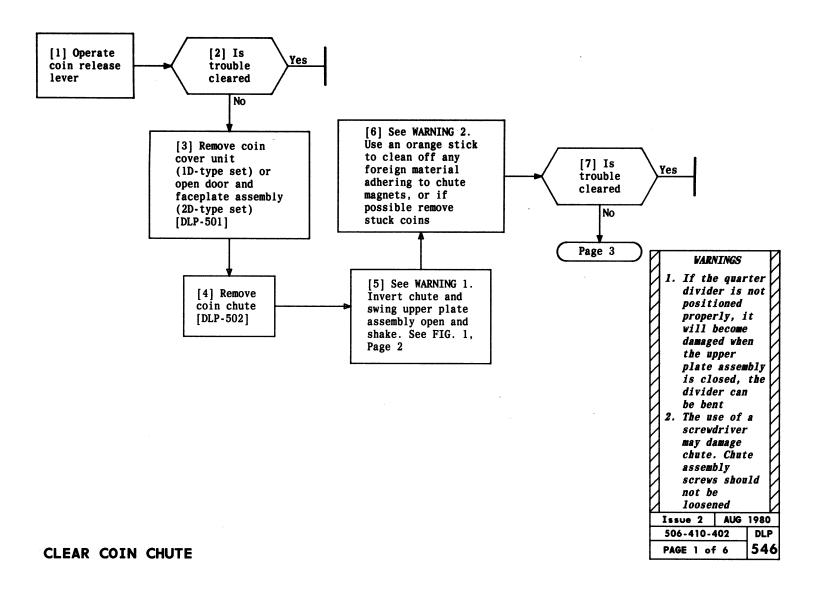




STEP 4

FIG. 2 — Installing Trap Lever Spring (Typical)

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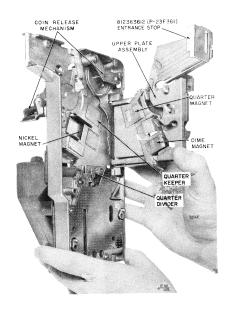
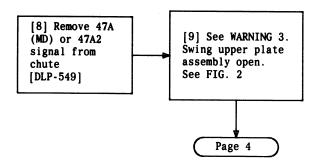


FIG. 1 — Chute

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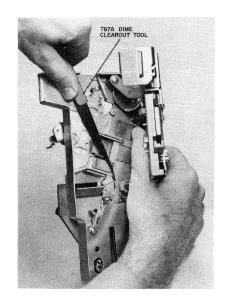
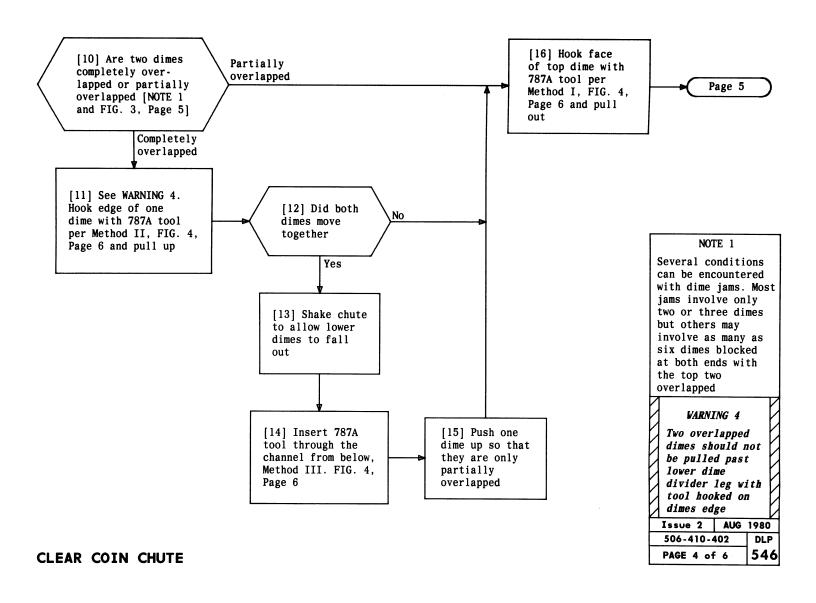
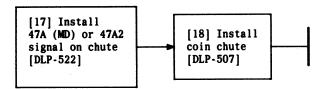


FIG. 2 — Using a 787A Dime Clearout Tool in Chute

If the quarter divider is not positioned properly, it will become damaged when upper plate	
assembly is closed. The divider can be bent	
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WARNING 3





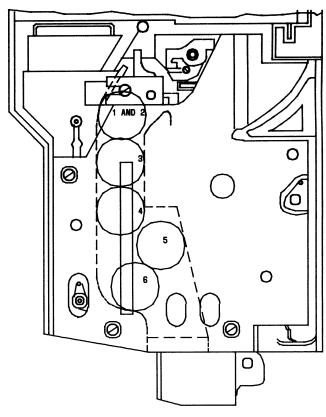
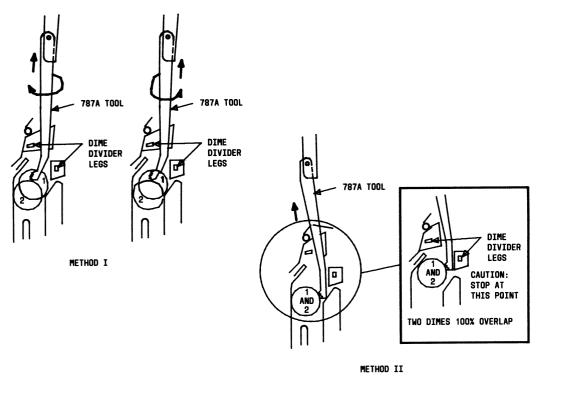


FIG. 3 — Lower Portion of Coin Chute With Six Dimes Jammed

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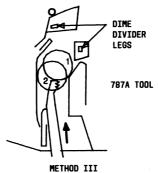
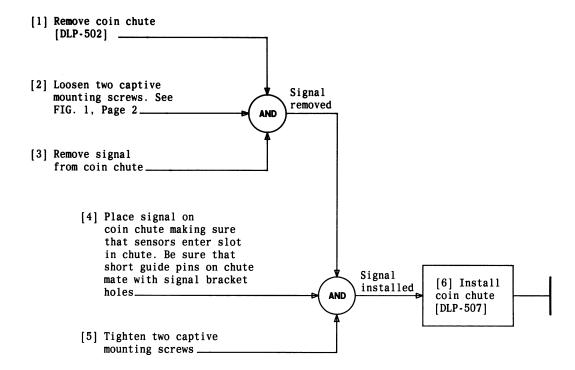
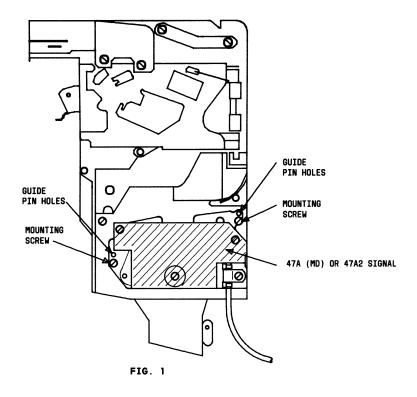


FIG. 4 - Method for Removing Jammed Dimes from Chute

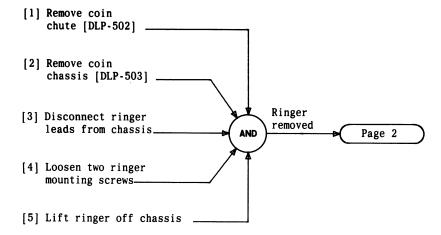
Issue 2	AUG	1980
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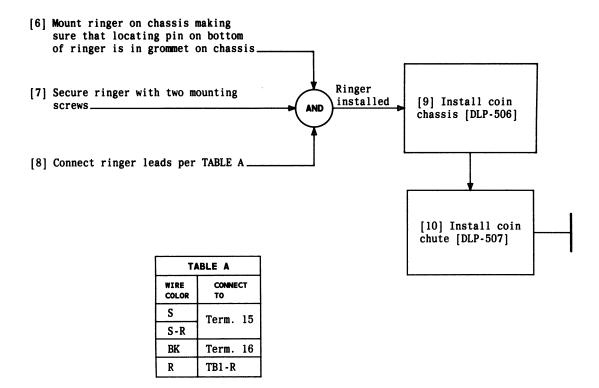
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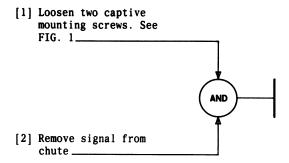
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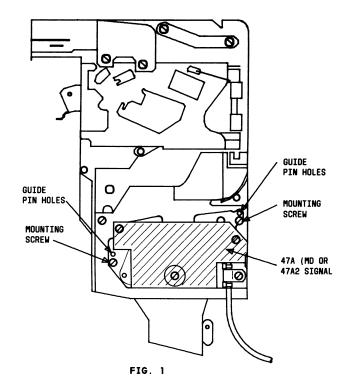


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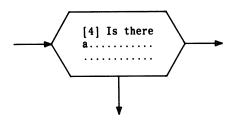


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D1, 1D2 COIN TELEPHONE SET INSTALL
2D1, 2D2 COIN TELEPHONE SET INSTALL
CHECK LOCATION AND MOUNTING FACILITIES
CLEAR CAN'T BREAK DIAL TONE TROUBLE
CLEAR COIN CHUTE
CLEAR COIN TONE SIGNAL TROUBLE
CLEAR COINS COLLECTED OR RETURNED IN ERROR TROUBLE
CLEAR 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	3
CONVERT 1E1 SET IN DIAL POSTPAY MODE TO 1D1 SET DIAL-TONE-FIRST MODE	6
CONVERT 1E3 SET IN MANUAL POSTPAY MODE TO 1D1 OR 1D2 SET DIAL-TONE-FIRST MODE	7
INSTALL 1D1, 1D2 COIN TELEPHONE SET	1
INSTALL 2D1, 2D2 COIN TELEPHONE SET	2
INSTALL 840157333 TRAP LEVER SPRING	5
INSTALL COIN RELAY ON HOPPER	4
MAINTENANCE PHILOSOPHY - 1D/2D-TYPE COIN TELEPHONE SET 10	0
REMOVE COIN RELAY FROM HOPPER	1
REPLACE 47A (MD) OR 47A2 SIGNAL	7
REPLACE COIN RELAY	8
REPLACE COIN TRAP AND ASSOCIATED COMPONENTS	3
REPLACE RINGER	8
REPLACE VANE	2

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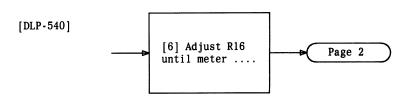
This is a.....

WARNING
Always be safety
conscious on
and off the job

TASK ORIENTED PRACTICE..... or TOP

TAP
TIL
ATP
AND
ATL

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



HOW TO USE THIS "TOP"

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.

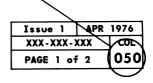
Trouble Clearing

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."

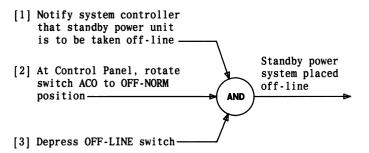
Here are some of the things designed into TOP to help you "bypass" information you may already know:

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

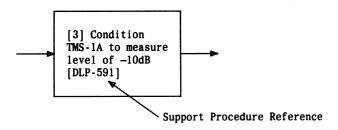
A result statement may be used in a flow-charted procedure along with the "AND" symbol. Here is an example of the "AND" symbol and a result statement:



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

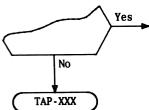
When you see this kind of reference in TOP, it refers to a support procedure.



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.

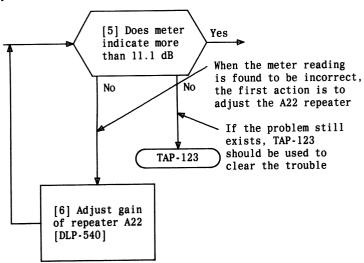
So far, the Company Order type jobs have been the main topic; however, you will find that the Routine and Acceptance categories are used in the same manner. You may come across a couple of new abbreviations in those categories, namely, Acceptance Task Procedure (ATP) and Routine Task Procedure (RTP).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



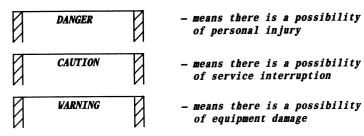
This reference to TAP-XXX indicates that the equipment is not operating correctly and the TAP (Trouble Analysis Procedure) should be used to help you find and repair the trouble.

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.

