Task Oriented Practice
(TOP)

GROWTH/DEGROWTH

4 *ESS*™ SWITCH

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FIND YOUR JOB IN THE LIST BELOW . . . . . THEN GO TO

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FIND YOUR JOB IN THE LIST BELOW	THEN GO TO
Points; Universal and/or Miscellaneous Scan, to Signal Processor 1 (No Like Numbered Universal Signal Distributor K Block) — Add Block(s) (Support to Installer)	NTP-011
Points; Universal and/or Miscellaneous Signal Distributor, Relay Only, to Signal Processor 1 — Add Block(s) (Used by Telephone Company Personnel Only)	NTP-017
Scan and Signal Distributor Points; Combined, Relay and Pulse, to Signal Processor 1 — Add Block (Support to Installer)	NTP-006
Scan and Signal Distributor Points; Combined, Relay Only, to Signal Processor 1 — Add Block (Support to Installer)	NTP-005
Signal Distributor Points; Miscellaneous, Relay and Pulse, to Signal Processor 1 — Add Block(s) (Support to Installer)	NTP-013
Signal Distributor Points; Miscellaneous, Relay and Pulse, to Signal Processor 1 — Add Block(s) (Used by Telephone Company Personnel Only)	NTP-014
Signal Processor — Degrow (Support to Installer)	NTP-018
Signal Processor 1 With Combined Matrix Frame(s) — Add (Support to Installer)	NTP-003
Signal Processor 2 With Supplementary Matrix Frame — Add (Support to Installer)	NTP-007
Signal Processor 2 Without Supplementary Matrix Frame — Add (Support to Installer)	NTP-008
Supplementary Matrix Frame to Signal Processor 2 — Add (Support to Installer)	NTP-009
Supplementary Matrix Frame With SP 2 — Add (Support to Installer)	NTP-007
Universal and/or Miscellaneous Scan Points to Signal Processor 1 (No Like Numbered Universal Signal Distributor K Block) — Add Block(s) (Used by Telephone Company Personnel Only)	NTP-016
Universal and/or Miscellaneous Scan Points to Signal Processor 1 (No Like Numbered Universal Signal Distributor K Block) — Add Block(s) (Support to Installer)	NTP-011
Universal and/or Miscellaneous Signal Distributor Points, Relay Only, to Signal Processor 1 — Add Block(s) (Used by Telephone Company Personnel Only)	NTP-017
Universal and/or Miscellaneous Signal Distributor Points, Relay Only, to Signal Processor 1 — Add Block(s) (Support to Installer)	NTP-012

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FIND YOUR JOB IN THE LIST BELOW . . . . . THEN GO TO	
Universal Scan and Universal Signal Distributor Points to Signal Processor 1 (Each Having Like K Block Numbers) — Add Block(s) (Used by Telephone Company Personnel Only)	NTP-015
Universal Scan and Universal Signal Distributor Points to Signal Processor 1 (Each Having Like K Block Numbers) — Add Block(s) (Support to Installer)	NTP-010

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Acceptance tests are not required for verification of the growth procedures contained in this volume. The readiness of a frame or unit to become a part of the operating system is established by the successful completion of the particular growth procedure in its entirety.

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

		RESPONSIBILITY	
1	Verify SP 1 Unit Type (UT) Translator and Compare Translations Data Against Wiring Records:		
	1. Verify SP 1 UT Translator (**VER:UTYPE:SP** a!)	TELCO/INST	DLP-518
	2. Compare Translations Data Against Wiring Records	INST	—
2	Connect SP Interbay Cables	INST	—
3	Perform SP Frame Power Verification	INST	—
4	Remove SP Power Using Power Switches	INST	—
5	Connect Private Signal Leads	INST	—
6	Place Strapping for K-Code, MI, GI, and Buffer Poll Option (Exclude Scan Point and Matrix Equipage Straps)	INST	—
7	Connect and Verify SP Control Frame (SPCF) and Matrix Frame(s) Alarm Cables (Power Is Restored)	INST	—
8	Verify Cabling and Assignments	TELCO/INST	—
9	Extend or Insert Peripheral Unit Bus Per TOP 234-153-045; Then Continue This Procedure at Item 10 Upon Completion	TELCO/INST	—
10	Recent Change and Verify Member Equipage From UNEQ to GROW	TELCO	DLP-501
11	At SP 1 Control Frame **MML** Switch, Rotate **ALM RETIRE** Switch to **RML**	INST	—
12	Enter Message **RMV:PUB 0**! To Remove Peripheral Unit Bus 0 From Service	TELCO	—
13	Apply Power to Growth SP Bus Interface Unit 0 and Controllers 0 and 1	INST	—
14	Diagnose Frame Controllers 0 and 1 (PUB 0)	INST	—
15	Restore Peripheral Unit Bus 0 to Service (**RST:PUB 0**!)	TELCO/INST	DLP-504
16	Enter Message **RMV:PUB 1**! To Remove Peripheral Unit Bus 1 From Service	TELCO	—
17	Remove Power From Growth SP Bus Interface Unit 0	INST	—
	(Continued on Page 2)		

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DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
18	Apply Power to Growth SP Bus Interface Unit 1	INST	—
19	Diagnose Frame Controllers 0 and 1 (Specifying PUB 1 and Growth)	INST	—
20	Restore Peripheral Unit Bus 1 to Service (**RST:PUB 1!**)	TELCO/INST	DLP-504
21	If Repair or Maintenance Was Required to IPUB or Controller Access Circuitry During IPUB 1 Testing:		
	1. Remove Power From Growth SP Bus Interface Unit 1	INST	—
	2. Repeat From Item 12	TELCO/INST	—
22	Apply Power to Growth SP Bus Interface Unit 0	INST	—
23	Diagnose Growth SP (Specifying Memory and Growth)	INST	—
24	Recent Change and Verify Submember Equipage From UNEQ to GROW [Equipped Matrix Frame(s)]:		
	A. Left Matrix Frame	TELCO	DLP-502
	B. Right Matrix Frame	TELCO	DLP-502
25	If Left CD&SM Frame Is Equipped:		
	1. Recent Change But Do Not Activate Submember Equipage From UNEQ to GROW [Equipped K Block(s)]		
	A. Combined Universal Point Block 0 (K Block 0)		
	1. TSN 0	TELCO	DLP-513
	2. TDN 0	TELCO	DLP-513
	B. Combined Universal Point Block 2 (K Block 2)		
	1. TSN 2	TELCO	DLP-513
	2. TDN 2	TELCO	DLP-513
	C. Combined Miscellaneous Point Block 0 (K Block 4)		
	1. MSN 0	TELCO	DLP-513
	2. MDN 0	TELCO	DLP-513

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
25 (Contd)	2. Activate Submember Equipage From UNEQ to GROW [Equipped K Block(s)]		
	A. If Adding Combined Miscellaneous Point Block(s) Only, Activate Submember Equipage	TELCO	DLP-559
	B. If Adding Combined Universal And Miscellaneous Point Block(s), Activate Submember Equipage Using RC Form 600	TELCO	DLP-514
26	If Right CD&SM Frame Is Equipped:		
	1. Recent Change But Do Not Activate Submember Equipage From UNEQ to GROW [Equipped K Blocks(s)]		
	A. Combined Universal Point Block 1 (K Block 1)		
	1. TSN 1	TELCO	DLP-513
	2. TDN 1	TELCO	DLP-513
	B. Combined Universal Point Block 3 (K Block 3)		
	1. TSN 3	TELCO	DLP-513
	2. TDN 3	TELCO	DLP-513
	C. Combined Miscellaneous Point Block 1 (K Block 5)		
	1. MSN 1	TELCO	DLP-513
	2. MDN 1	TELCO	DLP-513
	2. Activate Submember Equipage From UNEQ to GROW [Equipped K Block(s)]		
	A. If Adding Combined Miscellaneous Point Block(s) Only, Activate Submember Equipage	TELCO	DLP-559
	B. If Adding Combined Universal And Miscellaneous Point Block(s), Activate Submember Equipage Using RC Form 600	TELCO	DLP-514
27	Recent Change and Verify Member Equipage From GROW to SGRO	TELCO	DLP-501
28	Install Controller 0 and 1 Matrix Equipage Straps	INST	—
29	Diagnose Growth SP1 (Specifying Matrix and Growth)	INST	—
30	Recent Change and Verify Submember Equipage From GROW to SGRO [Equipped Matrix Frame(s)]:		
	A. Left Matrix Frame	TELCO	DLP-502

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
30 (Contd)	B. Right Matrix Frame	TELCO	DLP-502
31	If Left CD&SM Frame Is Equipped:		
	1. Recent Change But Do Not Activate Submember Equipage From GROW to SGRO [Equipped K Blocks(s)]		
	A. Combined Universal Point Block 0 (K Block 0)		
	1. TSN 0	TELCO	DLP-513
	2. TDN 0	TELCO	DLP-513
	B. Combined Universal Point Block 2 (K Block 2)		
	1. TSN 2	TELCO	DLP-513
	2. TDN 2	TELCO	DLP-513
	C. Combined Miscellaneous Point Block 0 (K Block 4)		
	1. MSN 0	TELCO	DLP-513
	2. MDN 0	TELCO	DLP-513
	2. Activate Submember Equipage From GROW to SGRO [Equipped K Block(s)]		
	A. If Adding Combined Miscellaneous Point Block(s) Only, Activate Submember Equipage	TELCO	DLP-559
	B. If Adding Combined Universal And Miscellaneous Point Block(s)), Activate Submember Equipage Using RC Form 600	TELCO	DLP-514
32	If Right CD&SM Frame Is Equipped:		
	1. Recent Change But Do Not Activate Submember Equipage From GROW to SGRO [Equipped K Blocks(s)]		
	A. Combined Universal Point Block 1 (K Block 1)		
	1. TSN 1	TELCO	DLP-513
	2. TDN 1	TELCO	DLP-513
	B. Combined Universal Point Block 3 (K Block 3)		
	1. TSN 3	TELCO	DLP-513

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
32 (Contd)	2. TDN 3	TELCO	DLP-513
	C. Combined Miscellaneous Point Block 1 (K Block 5)		
	1. MSN 1	TELCO	DLP-513
	2. MDN 1	TELCO	DLP-513
	2. Activate Submember Equipage From GROW to SGRO [Equipped K Block(s)]		
	A. If Adding Combined Miscellaneous Point Block(s) Only, Activate Submember Equipage	TELCO	DLP-559
	B. If Adding Combined Universal And Miscellaneous Point Block(s), Activate Submember Equipage Using RC Form 600	TELCO	DLP-514
33	Install Scan Point Straps (Only for K Blocks Being Added) and, at SPCF **MML** Switch, Return **ALM RETIRE** Switch to Normal Position	INST	—
34	Diagnose Growth SP (Specifying Matrix and Growth)	INST	—
35	At SP Bus Interface Units 0 and 1, at Pulse Point Power Switch (If Equipped), and at Controller 0, Rotate **OFF** Switches on Power Switches to Normal Position. Controller 1 Power Switch to Remain **ROS**	INST	—
36	Enter Message To Run Peripheral Unit Status Audit (**AUD:PUSTAT!**); Wait for Message Complete (**MSG COMPL**)	TELCO	—
37	Recent Change and Verify Member Equipage From SGRO to OPER	TELCO	DLP-501
38	Enter Message To Restore and Initialize Controller 0 to Simplex Operation (**RST:SP a,CONTR 0!**) ATP and Restore COMPLETE Required; Installer Clear Equipment Troubles	TELCO/INST	—
39	Restore and Initialize Controller 1 to Duplex Operation (Using Power Switch)	TELCO/INST	DLP-505
40	Enter Message To Run Peripheral Unit Status Audit (**AUD:PUSTAT!**); Wait for Message Complete (**MSG COMPL**) (Observe That Audit Causes Improperly Lighted Lamps at Growth Frame to Go Off Indicating Maintenance Status Is Updated)	TELCO	—
41	Recent Change and Verify Submember Equipage From SGRO to OPER [Equipped Matrix Frame(s)]:		
	A. Left Matrix	TELCO	DLP-502
	B. Right Matrix	TELCO	DLP-502
	(Continued on Page 6)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
42	If MSN K Block Is Equipped, Enter Message To Run Audit 28 (**AUD:NUM 28!**); Wait for **AUD:NUM 28 COMPLETE 0 ERRORS DETECTED** Output Message	TELCO	—
43	If TSN K Block Is Equipped, Enter Message To Run Audit 27 (**AUD:NUM 27!**); Wait for **AUD:NUM 27 COMPLETE 0 ERRORS DETECTED** Output Message	TELCO	—
44	If Left CD&SM Is Equipped:		
	1. Recent Change But Do Not Activate Submember Equipage From SGRO to OPER [Equipped K Block(s)]		
	A. Combined Universal Point Block 0 (K Block 0)		
	1. TSN 0	TELCO	DLP-513
	2. TDN 0	TELCO	DLP-513
	B. Combined Universal Point Block 2 (K Block 2)		
	1. TSN 2	TELCO	DLP-513
	2. TDN 2	TELCO	DLP-513
	C. Combined Miscellaneous Point Block 0 (K Block 4)		
	1. MSN 0	TELCO	DLP-513
	2. MDN 0	TELCO	DLP-513
	2. Activate Submember Equipage From SGRO to OPER [Equipped K Block(s)]		
	A. If Adding Combined Miscellaneous Point Block(s) Only, Activate Submember Equipage	TELCO	DLP-559
	B. If Adding Combined Universal And Miscellaneous Point Block(s), Activate Submember Equipage Using RC Form 600	TELCO	DLP-514
45	If Right CD&SM Is Equipped:		
	1. Recent Change But Do Not Activate Submember Equipage From SGRO to OPER [Equipped K Blocks(s)]		
	A. Combined Universal Point Block 1 (K Block 1)		
	1. TSN 1	TELCO	DLP-513

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
45 (Contd)	2. TDN 1	TELCO	DLP-513
	B. Combined Universal Point Block 3 (K Block 3)		
	1. TSN 3	TELCO	DLP-513
	2. TDN 3	TELCO	DLP-513
	C. Combined Miscellaneous Point Block 1 (K Block 5)		
	1. MSN 1	TELCO	DLP-513
	2. MDN 1	TELCO	DLP-513
	2. Activate Submember Equipage From SGRO to OPER [Equipped K Block(s)]		
	A. If Adding Combined Miscellaneous Point Block(s) Only, Activate Submember Equipage	TELCO	DLP-559
	B. If Adding Combined Universal And Miscellaneous Point Block(s), Activate Submember Equipage Using RC Form 600	TELCO	DLP-514
46	Enter Message To Run Peripheral Unit Status Audit (**AUD:PUSTAT!**); Wait for Message Complete (**MSG COMPL**)	TELCO	—
47	At SP 1 Control Frame, Diagnose Signal Processor 1 Using **MML** Switch	TELCO/INST	DLP-500
48	If Combined Miscellaneous Point Block Is Equipped and Includes Pulse Point Circuitry:		
	A. If Left CD&SM Frame Is Equipped: Restore Pulse Point Logic to Service (**RST:SP a,PPL 0!**)	TELCO/INST	DLP-542
	B. If Right CD&SM Frame Is Equipped: Restore Pulse Point Logic to Service (**RST:SP a,PPR 0!**)	TELCO/INST	DLP-542
49	Identify and Remove Pest Conditions Set in Growth SP 1 Controller(s)	TELCO	DLP-543

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

		RESPONSIBILITY	
1	Verify SP Unit Type (UT) Translator and Compare Translations Data Against Wiring Records:		
	1. Verify Matrix Data of SP UT Translator (**VER:UTYPE:SP** a!)	TELCO/INST	DLP-519
	2. Compare Translations Data Against Wiring Records	INST	—
2	Perform Polarity and False Ground Check on Matrix Frame	INST	—
3	Perform Stand Alone Power Verification Test on Matrix Frame	INST	—
4	Monitor Converter Voltages	INST	—
5	Connect Private Signal Leads and Verify Proper Operation	INST	—
6	Remove Temporary Start Power and Inhibit Alarms on Matrix Frame	INST	—
7	Remove Power With **CONTR0** Switch (SPCF 0) and Remove Controller 0 and Matrix Switch Lamp Power Fuse (**0MC**)	TELCO/INST	—
8	Connect Cables Between Growth Matrix and SP 1 Control Frame (SPCF 0)	INST	—
9	At SP 1 Control Frame **MML** Switch, Rotate **ALM RETIRE** Switch to **RML** and Insert **0MC** Fuse Removed in Item 7 and Matrix 24V Start Fuses in Controller 0	TELCO/INST	—
10	Restore Controller 0 to Service Via Power Switch **CONTR0** (SPCF 0)	TELCO/INST	DLP-506
11	Remove Power With **CONTR1** Switch (SPCF 1) and Remove Controller 1 and Matrix Switch Lamp Power Fuse (**1MC**)	TELCO/INST	—
12	Connect Cables Between Growth Matrix and SP 1 Control Frame (SPCF 1)	INST	—
13	Install Fuses and Restore Controller 1 to Service:		
	1. Install **1MC** Fuse Removed in Item 11 and Matrix 24V Start Fuses in Controller 1	TELCO/INST	—
	2. Restore Controller 1 to Service Via Power Switch **CONTR1** (SPCF 1)	TELCO/INST	DLP-506
	(Continued on Page 2)		

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DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
14	Recent Change and Verify Submember Equipage From UNEQ to GROW (Growth Matrix Frame):		
	A. Left Matrix Frame	TELCO	DLP-502
	B. Right Matrix Frame	TELCO	DLP-502
15	Apply Power to Growth Matrix Frame, Release Alarm Relays, and Install Controller 0 and 1 Matrix Equipage Straps	INST	—
16	Diagnose and Restore Operational SP Frame Controllers and Growth Matrix Equipment	TELCO/INST	DLP-507
17	If Left CD&SM Frame Is Being Added:		
	1. Recent Change But Do Not Activate Submember Equipage From UNEQ to GROW [Equipped K Block(s)]		
	A. Combined Universal Point Block 0 (K Block 0)		
	1. TSN 0	TELCO	DLP-513
	2. TDN 0	TELCO	DLP-513
	B. Combined Universal Point Block 2 (K Block 2)		
	1. TSN 2	TELCO	DLP-513
	2. TDN 2	TELCO	DLP-513
	C. Combined Miscellaneous Point Block 0 (K Block 4)		
	1. MSN 0	TELCO	DLP-513
	2. MDN 0	TELCO	DLP-513
	2. Activate Submember Equipage [Equipped K Block(s)]		
	A. If Adding Combined Miscellaneous Point Block(s) Only, Activate Submember Equipage	TELCO	DLP-559
	B. If Adding Combined Universal And Miscellaneous Point Block(s), Activate Submember Equipage Using RC Form 600	TELCO	DLP-514
18	If Right CD&SM Frame Is Being Added:		
	1. Recent Change But Do Not Activate Submember Equipage From UNEQ to GROW [Equipped K Block(s)]:		
	A. Combined Universal Point Block 1 (K Block 1)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
18 (Contd)	1. TSN 1	TELCO	DLP-513
	2. TDN 1	TELCO	DLP-513
	B. Combined Universal Point Block 3 (K Block 3)		
	1. TSN 3	TELCO	DLP-513
	2. TDN 3	TELCO	DLP-513
	C. Combined Miscellaneous Point Block 1 (K Block 5)		
	1. MSN 1	TELCO	DLP-513
	2. MDN 1	TELCO	DLP-513
	2. Activate Submember Equipage [Equipped K Block(s)]		
	A. If Adding Combined Miscellaneous Point Block(s) Only, Activate Submember Equipage	TELCO	DLP-559
	B. If Adding Combined Universal And Miscellaneous Point Block(s), Activate Submember Equipage Using RC Form 600	TELCO	DLP-514
19	Diagnose Operational SP 1 Frame Controllers and Growth Matrix Equipment	TELCO/INST	DLP-507
20	Recent Change and Verify Submember Equipage From GROW to SGRO (Growth Matrix Frame):		
	A. Left Matrix Frame	TELCO	DLP-502
	B. Right Matrix Frame	TELCO	DLP-502
21	If Left CD&SM Frame Is Being Added:		
	1. Recent Change But Do Not Activate Submember Equipage From GROW to SGRO [Equipped K Block(s)]		
	A. Combined Universal Point Block 0 (K Block 0)		
	1. TSN 0	TELCO	DLP-513
	2. TDN 0	TELCO	DLP-513
	B. Combined Universal Point Block 2 (K Block 2)		
	1. TSN 2	TELCO	DLP-513
	(Continued on Page 4)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
21 (Contd)	2. TDN 2	TELCO	DLP-513
	C. Combined Miscellaneous Point Block 0 (K Block 4)		
	1. MSN 0	TELCO	DLP-513
	2. MDN 1	TELCO	DLP-513
	2. Activate Submember Equipage [Equipped K Block(s)]		
	A. If Adding Combined Miscellaneous Point Block(s) Only, Activate Submember Equipage	TELCO	DLP-559
	B. If Adding Combined Universal And Miscellaneous Point Block(s), Activate Submember Equipage Using RC Form 600	TELCO	DLP-514
22	If Right CD&SM Frame Is Being Added:		
	1. Recent Change But Do Not Activate Submember Equipage From GROW to SGRO [Equipped K Block(s)]		
	A. Combined Universal Point Block 1 (K Block 1)		
	1. TSN 1	TELCO	DLP-513
	2. TDN 1	TELCO	DLP-513
	B. Combined Universal Point Block 3 (K Block 3)		
	1. TSN 3	TELCO	DLP-513
	2. TDN 3	TELCO	DLP-513
	C. Combined Miscellaneous Point Block 1 (K Block 5)		
	1. MSN 1	TELCO	DLP-513
	2. MDN 1	TELCO	DLP-513
	2. Activate Submember Equipage [Equipped K Block(s)]		
	A. If Adding Combined Miscellaneous Point Block(s) Only, Activate Submember Equipage	TELCO	DLP-559
	B. If Adding Combined Universal And Miscellaneous Point Block(s), Activate Submember Equipage Using RC Form 600	TELCO	DLP-514
23	Install Scan Point Straps (Only for K Blocks Being Added) and, at SPCF **MML** Switch, Return **ALM RETIRE** Switch to Normal Position	INST	—

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
24	Diagnose Operational SP 1 Frame Controllers and Growth Matrix Equipment	TELCO/INST	DLP-507
25	Recent Change and Verify Submember Equipage From SGRO to OPER (Growth Matrix Frame):		
	A. Left Matrix Frame	TELCO	DLP-502
	B. Right Matrix Frame	TELCO	DLP-502
26	If Combined Universal Point Block Is Equipped: Enter Message To Run Audit 27 (**AUD:NUM 27!**); Wait for **AUD:NUM 27 COMPLETE 0 ERRORS DETECTED** Output Message	TELCO	—
27	If Combined Miscellaneous Point Block Is Equipped: Enter Message To Run Audit 28 (**AUD:NUM 28!**); Wait for **AUD:NUM 28 COMPLETE 0 ERRORS DETECTED** Output Message	TELCO	—
28	If Left CD&SM Frame Is Being Added:		
	1. Recent Change But Do Not Activate Submember Equipage From SGRO to OPER [Equipped K Block(s)]		
	A. Combined Universal Point Block 0 (K Block 0)		
	1. TSN 0	TELCO	DLP-513
	2. TDN 0	TELCO	DLP-513
	B. Combined Universal Point Block 2 (K Block 2)		
	1. TSN 2	TELCO	DLP-513
	2. TDN 2	TELCO	DLP-513
	C. Combined Miscellaneous Point Block 0 (K Block 4)		
	1. MSN 0	TELCO	DLP-513
	2. MDN 0	TELCO	DLP-513
	2. Activate Submember Equipage [Equipped K Block(s)]		
	A. If Adding Combined Miscellaneous Point Block(s) Only, Activate Submember Equipage	TELCO	DLP-559
	B. If Adding Combined Universal And Miscellaneous Point Block(s), Activate Submember Equipage Using RC Form 600	TELCO	DLP-514
	(Continued on Page 6)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
29	If Right CD&SM Frame Is Being Added:		
	1. Recent Change But Do Not Activate Submember Equipage From SGRO to OPER [Equipped K Block(s)]		
	A. Combined Universal Point Block 1 (K Block 1)		
	1. TSN 1	TELCO	DLP-513
	2. TDN 1	TELCO	DLP-513
	B. Combined Universal Point Block 3 (K Block 3)		
	1. TSN 3	TELCO	DLP-513
	2. TDN 3	TELCO	DLP-513
	C. Combined Miscellaneous Point Block 3 (K Block 3)		
	1. MSN 1	TELCO	DLP-513
	2. MDN 1	TELCO	DLP-513
	2. Activate Submember Equipage [Equipped K Block(s)]		
	A. If Adding Combined Miscellaneous Point Block(s) Only, Activate Submember Equipage	TELCO	DLP-559
	B. If Adding Combined Universal And Miscellaneous Point Block(s), Activate Submember Equipage Using RC Form 600	TELCO	DLP-514
30	Enter Message To Run Peripheral Unit Status Audit (**AUD:PUSTAT!**); Wait for Message Complete (**MSG COMPL**)	TELCO	—
31	At SP 1 Control Frame, Diagnose Signal Processor 1 Using **MML** Switch	TELCO/INST	DLP-500
32	If Combined Miscellaneous Point Block Is Equipped and Includes Pulse Point Circuitry:		
	A. If Left CD&SM Frame Is Equipped: Restore Pulse Point Logic to Service (**RST:SP a,PPL 0!**)	TELCO/INST	DLP-542
	B. If Right CD&SM Frame Is Equipped: Restore Pulse Point Logic to Service (**RST:SP a,PPR 0!**)	TELCO/INST	DLP-542
33	Identify and Remove Pest Conditions Set in Growth SP Controller(s)	TELCO	DLP-543

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

		RESPONSIBILITY	
1	Select Combined Distributor and Scan Matrix (CD&SM) Equipment and Determine Growth CD&SM Unit Location	INST	—
2	Verify UNEQ State of CD&SM Point Unit (K Block) Equipage (**VER:UTYPE:SP** a,**SME** b!)	TELCO	DLP-515
3	Diagnose Operational SP 1 Frame Controllers and CD&SM Equipment	TELCO	DLP-531
4	At CD&SM Frame, Remove Fuses (If Installed) for CD&SM Unit (K Block) To Be Added:		
	1. Identify Fuse Assignments for CD&SM Unit (K Block)	TELCO	DLP-511
	2. If Fuses Installed, Remove Fuses for CD&SM Unit (K Block)	TELCO	—
5	At CD&SM Frame, Mount CD&SM Unit Equipment (Not Circuit Packs) and Connect Power Cabling	INST	—
6	At CD&SM Frame, Install Cabling Between Added CD&SM Point Unit and Matrix Access Unit, and Connect Cabling at Added Point Unit	INST	—
7	At SP 1 Control Frame **MML** Switch, Rotate **ALM RETIRE** Switch to **RML**	TELCO	—
8	At CD&SM Frame, Connect Cabling, Installed in Item 6, at Matrix Access Unit	INST	—
9	At SP 1 Control Frame, Enable **MML** Switch	TELCO/INST	DLP-530
10	At SP 1 Control Frame **MML** Switch, Rotate **ALM RETIRE** Switch to **RML**	TELCO	—
11	At CD&SM Frame, Install dc-dc Converter Packs for CD&SM Point Unit (K Block) Being Added	INST	—
12	At CD&SM Frame, Install Fuses for CD&SM Unit (K Block) Being Added:		
	1. Identify Fuse Assignments for CD&SM Unit (K Block)	TELCO	DLP-511
	2. Install Fuses for CD&SM Unit (K Block)	TELCO	—
13	Measure Voltage at Growth CD&SM Unit Power Connectors	INST	—
14	At CD&SM Frame, Remove Fuses Installed in Item 12	TELCO	—
15	At CD&SM Frame, Install Circuit Packs At Matrix Access Unit and CD&SM Point Unit for K Block Being Added	INST	—
	(Continued on Page 2)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
16	At CD&SM Frame, Install Fuses for CD&SM Unit (K Block) Being Added:		
	1. Identify Fuse Assignments for CD&SM Unit (K Block)	TELCO	DLP-511
	2. Install Fuses for CD&SM Unit (K Block)	TELCO	—
17	Recent Change and Verify Submember Equipage From UNEQ to GROW (K Blocks):		
	1. If Left CD&SM Frame Is Growth Associated		
	A. Combined Universal Block 0 (K Block 0)		
	1. TSN 0	TELCO	DLP-502
	2. TDN 0	TELCO	DLP-502
	B. Combined Universal Block 2 (K Block 2)		
	1. TSN 2	TELCO	DLP-502
	2. TDN 2	TELCO	DLP-502
	C. Combined Miscellaneous Block 0 (K Block 4)		
	1. MSN 0	TELCO	DLP-502
	2. MDN 0	TELCO	DLP-502
	2. If Right CD&SM Frame Is Growth Associated		
	A. Combined Universal Block 1 (K Block 1)		
	1. TSN 1	TELCO	DLP-502
	2. TDN 1	TELCO	DLP-502
	B. Combined Universal Block 3 (K Block 3)		
	1. TSN 3	TELCO	DLP-502
	2. TDN 3	TELCO	DLP-502
	(Continued on Page 3)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
17 (Contd)	C. Combined Miscellaneous Block 1 (K Block 5)		
	1. MSN 1	TELCO	DLP-502
	2. MDN 1	TELCO	DLP-502
18	Diagnose Operational SP 1 Frame Controllers and Growth Matrix Equipment	TELCO	DLP-507
19	Recent Change and Verify Submember Equipage From GROW to SGRO (K Blocks):		
	1. If Left CD&SM Frame Is Growth Associated		
	A. Combined Universal Block 0 (K Block 0)		
	1. TSN 0	TELCO	DLP-502
	2. TDN 0	TELCO	DLP-502
	B. Combined Universal Block 2 (K Block 2)		
	1. TSN 2	TELCO	DLP-502
	2. TDN 2	TELCO	DLP-502
	2. If Right CD&SM Frame Is Growth Associated		
	A. Combined Universal Block 1 (K Block 1)		
	1. TSN 1	TELCO	DLP-502
	2. TDN 1	TELCO	DLP-502
	B. Combined Universal Block 3 (K Block 3)		
	1. TSN 3	TELCO	DLP-502
	2. TDN 3	TELCO	DLP-502
	C. Combined Miscellaneous Block 1 (K Block 5)		
	1. MSN 1	TELCO	DLP-502
	2. MDN 1	TELCO	DLP-502
20	Install Scan Point Straps (Only for CD&SM Block Being Added)	INST	—
	(Continued On Page 4)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
21	Diagnose Operational SP1 Frame Controllers and Growth Matrix Equipment	TELCO/INST	DLP-507
22	At SP 1 Control Frame, Enable **MML** Switch	TELCO/INST	DLP-530
23	Run Audit:		
	A. If Combined Universal (TSN/TDN) Point Block Is Equipped: Enter Message To Run Audit 27 (**AUD:NUM 27!**); Wait for **AUD:NUM 27 COMPLETE 0 ERRORS DETECTED** Output Message	TELCO	—
	B. If Combined Miscellaneous (MSN/MDN) Point Block Is Equipped: Enter Message To Run Audit 28 (**AUD:NUM 28!**); Wait for **AUD:NUM 28 COMPLETE 0 ERRORS DETECTED** Output Message	TELCO	—
24	Recent Change and Verify Submember Equipage From SGRO to OPER (K Blocks):		
	1. If Left CD&SM Frame Is Growth Associated		
	A. Combined Universal Block 0 (K Block 0)		
	1. TSN 0	TELCO	DLP-502
	2. TDN 0	TELCO	DLP-502
	B. Combined Universal Block 2 (K Block 2)		
	1. TSN 2	TELCO	DLP-502
	2. TDN 2	TELCO	DLP-502
	C. Combined Miscellaneous Block 0 (K Block 4)		
	1. MSN 0	TELCO	DLP-502
	2. MDN 0	TELCO	DLP-502
	2. If Right CD&SM Frame Is Growth Associated		
	A. Combined Universal Block 1 (K Block 1)		
	1. TSN 1	TELCO	DLP-502
	2. TDN 1	TELCO	DLP-502

(Continued on Page 5)

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
24 (Contd)	B. Combined Universal Block 3 (K Block 3)		
	1. TSN 3	TELCO	DLP-502
	2. TDN 3	TELCO	DLP-502
	C. Combined Miscellaneous Block 1 (K Block 5)		
	1. MSN 1	TELCO	DLP-502
	2. MDN 1	TELCO	DLP-502
25	Enter Message To Run Peripheral Unit Status Audit (**AUD:PUSTAT!**); Wait for Message Complete (**MSG COMPL**)	TELCO	—
26	At SP 1 Control Frame, Diagnose Signal Processor Using **MML** Switch	TELCO/INST	DLP-500
27	Identify and Remove Pest Condition Set in Growth Associated SP Controller(s)	TELCO	DLP-543

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

		RESPONSIBILITY	
1	Select Combined Distributor and Scanner Matrix (CD&SM) Point Unit and Determine Growth Point Unit Location	INST	—
2	Verify Combined Scan and SD Block, and Pulse Point Equipage of SP 1 UT Translator (**VER:UTYPE:SP** a!)	TELCO/INST	DLP-512
3	Diagnose Operational SP 1 Frame Controller and CD&SM Equipment	TELCO	DLP-531
4	At CD&SM Frame, Remove Fuses (If Installed) for CD&SM Point Unit (K Block) To Be Added		
	1. Identify Fuse Assignments for CD&SM Unit (K Block)	TELCO	DLP-511
	2. If Fuses Installed, Remove Fuses for CD&SM Point Unit (K Block)	TELCO	—
5	At CD&SM Frame, Mount CD&SM Unit Equipment and Connect Power Cabling	INST	—
6	At CD&SM Frame, Install Cabling Between Added CD&SM Point Unit and Matrix Access Unit, and Connect Cabling at Growth Point Unit	INST	—
7	At SP 1 Control Frame **MML** Switch, Rotate **ALM RETIRE** Switch to **RML**	TELCO	—
8	At CD&SM Frame, Connect Cabling Installed in Item 6 at Matrix Access Unit	INST	—
9	At SP 1 Control Frame, Enable **MML** Switch	TELCO	DLP-530
10	At SP 1 Control Frame **MML** Switch, Rotate **ALM RETIRE** Switch to **RML**	TELCO	—
11	At CD&SM Frame, Install dc-dc Converter Packs for CD&SM Point Unit (K Block) Being Added		
12	At CD&SM Frame, Install Fuses for CD&SM Point Unit (K Block) Being Added	INST	—
	1. Identify Fuse Assignments for CD&SM Unit (K Block) Being Added	TELCO	DLP-511
	2. If Fuses Installed, Remove Fuses for CD&SM Point Unit (K Block) Being Added	TELCO	—
13	Measure Voltage at Added CD&SM Point Unit	INST	—
14	At CD&SM Frame, Remove Fuses Installed in Item 12	TELCO	—
15	At CD&SM Frame, Install Circuit Packs at Matrix Access Unit and CD&SM Point Unit for K Block Being Added	INST	—
	(Continued on Page 2)		

ADD BLOCK OF COMBINED SCAN AND SD POINTS (COMBINATION RELAY AND PULSE) TO SP 1 — SUPPORT TO INSTALLER (INST)

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
16	At CD&SM Frame, Install Fuses for CD&SM Point Unit (K Block) Being Added:		
	1. Identify Fuse Assignments for CD&SM Point Unit (K Block) Being Added	TELCO	DLP-511
	2. Install Fuses for CD&SM Point Unit (K Block) Being Added	TELCO	—
17	Restore Pulse Point Power With Power Switch		
	1. If Adding K Block 4, Restore Pulse Point Power With Power Switch (Left CD&SM Frame)	TELCO/INST	DLP-528
	2. If Adding K Block 5, Restore Pulse Point Power With Power Switch (Right CD&SM Frame)	TELCO/INST	DLP-528
18	Recent Change and Verify Submember Equipage From UNEQ to GROW (K Blocks):		
	A. If Left CD&SM Frame Is Growth Associated		
	1. MSN 0	TELCO	DLP-502
	2. MDN 0	TELCO	DLP-502
	B. If Right CD&SM Frame Is Growth Associated		
	1. MSN 1	TELCO	DLP-502
	2. MDN 1	TELCO	DLP-502
19	Diagnose Operational SP 1 Frame Controllers and Growth Matrix Equipment	TELCO/INST	DLP-507
20	Recent Change and Verify Submember Equipage From GROW to SGRO (K Blocks):		
	A. If Left CD&SM Frame Is Growth Associated		
	1. MSN 0	TELCO/INST	DLP-502
	2. MDN 0	TELCO/INST	DLP-502
	B. If Right CD&SM Frame Is Growth Associated		
	1. MSN 1	TELCO/INST	DLP-502
	2. MDN 1	TELCO/INST	DLP-502
	(Continued on Page 3)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
21	Install Scan Point Straps for K Block Being Grown	INST	—
22	Diagnose Operational SP 1 Controllers and Growth Matrix Equipment	TELCO/INST	DLP-507
23	At SP 1 Control Frame, Enable **MML** Switch	TELCO/INST	DLP-530
24	Enter Message To Run Audit 28 (**AUD:NUM 28!**); Wait for **AUD:NUM 28 COMPLETE 0 ERRORS DETECTED** Output Message	TELCO	—
25	Recent Change and Verify Submember Equipage From SGRO to OPER (K Blocks):		
	A. If Left CD&SM Frame Is Growth Associated		
	1. MSN 0	TELCO	DLP-502
	2. MDN 0	TELCO	DLP-502
	B. If Right CD&SM Frame Is Growth Associated		
	1. MSN 1	TELCO	DLP-502
	2. MDN 1	TELCO	DLP-502
26	Enter Message to Run Peripheral Unit Status Audit (**AUD:PUSTAT!**); Wait for Message Complete (**MSG COMPL**)	TELCO	—
27	At SP 1 Control Frame, Diagnose Signal Processor Using **MML** Switch	TELCO/INST	DLP-500
28	If Combined Miscellaneous Point Block is Equipped and Includes Pulse Point Circuitry:		
	A. If Left CD&SM Frame Is Equipped: Restore Pulse Point Logic to Service (**RST:SP a,PPL 0!**)	TELCO/INST	DLP-542
	B. If Right CD&SM Frame Is Equipped: Restore Pulse Point Logic to Service (**RST:SP a,PPR 0!**)	TELCO/INST	DLP-542
29	Identify and Remove Pest Conditions Set in Growth SP 1 Controller(s)	TELCO	DLP-543

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

		RESPONSIBILITY	
1	Verify SP Unit Type (UT) Translator and Compare Translations Data Against Wiring Records:		
	1. Verify SP UT Translator (**VER:UTYPE:SP** a!)	TELCO/INST	DLP-521
	2. If SP Interfaces With CCIS Type Digroup Terminal (DT): Verify PSEUDO SP2 UT Translator (**VER:UTYPE:SP** a!)	TELCO/INST	DLP-503
	3. Compare Translations Data Against Wiring Records	INST	—
2	Connect SP Interbay Cables	INST	—
3	Perform SP Frame Power Verification	INST	—
4	Remove Power From Controllers 0 and 1, and Bus 0 and 1 Interface Units Using Power Switches	INST	—
5	Connect Private Signal Leads	INST	—
6	Place Strapping for K-Code, MI, GI, and Buffer Poll Option (Exclude Matrix Equipage Strap)	INST	—
7	Connect and Verify SP Control Frame (SPCF) and Matrix Frame Alarm Cables (Power Is Restored)	INST	—
8	Verify Cabling and Assignments	INST	—
9	Extend or Insert Peripheral Unit Bus per TOP 234-153-045, Then Continue This Procedure at Item 10 Upon Completion	TELCO/INST	—
10	Recent Change and Verify Member Equipage From UNEQ to GROW	TELCO	DLP-501
11	Recent Change and Verify Submember Equipage From UNEQ to GROW (DT Interface Circuit):		
	A. SP2EQ0 for E&M Type DT (Ports 0-3)	TELCO	DLP-502
	B. SP2EQ1 for CCIS Type DT (Ports 4-7)	TELCO	DLP-502
12	At Matrix Frame **MML** Switch, Rotate **ALM RETIRE** Switch to **RML**	INST	—
13	Enter Message **RMV:PUB 0**! To Remove Peripheral Unit Bus 0 From Service	TELCO	—

(Continued on Page 2)

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
14	Apply Power to Growth SP PU Bus Interface Unit 0 and Controllers 0 and 1	INST	—
15	If Any LED Lamps on Matrix Frame Converters Are Lit, Depress **ALM ENAB** on **MML** Switch	INST	—
16	Diagnose Frame Controllers 0 and 1 (PUB 0)	INST	—
17	Restore Peripheral Unit Bus 0 to Service (**RST:PUB 0**!)	TELCO/INST	DLP-504
18	Enter Message **RMV:PUB 1**! To Remove Peripheral Unit Bus 1 From Service	TELCO	—
19	Remove Power From Growth SP Bus Interface Unit 0	INST	—
20	Apply Power to Growth SP PU Bus Interface Unit 1	INST	—
21	Diagnose Frame Controllers 0 and 1 (PUB 1)	INST	—
22	Restore Peripheral Unit Bus 1 to Service (**RST:PUB 1**!)	TELCO/INST	DLP-504
23	If Repair or Maintenance Was Required to IPUB or Controller Access Circuitry During IPUB 1 Testing:		
	1. Remove Power From Growth SP BUS Interface Unit 1	INST	—
	2. Repeat Items 13 Through 22	TELCO/INST	—
24	Apply Power to Growth SP Bus Interface Unit 0	INST	—
25	Diagnose Growth SP (Specifying Memory and Growth)	INST	—
26	Recent Change and Verify Submember Equipage From UNEQ to GROW (Left Matrix Frame — BFE)	TELCO	DLP-502
27	Recent Change and Verify Submember Equipage From UNEQ to GROW [Equipped Miscellaneous Scan Number/Miscellaneous Distributor Number (MSN/MDN) K Block(s)]:		
	A. Miscellaneous Scan Block (MSN BLK) 0	TELCO	DLP-502
	B. Miscellaneous SD Block (MDN BLK) 0	TELCO	DLP-502
28	Recent Change and Verify Member Equipage From GROW to SGRO	TELCO	DLP-501
29	Diagnose Growth SP (Specifying Growth)	INST	—
30	Diagnose Growth SP (Specifying Matrix and Growth)	INST	—
	(Continued on Page 3)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
31	Recent Change and Verify Submember Equipage From GROW to SGRO (Left Matrix Frame — BFE)	TELCO	DLP-502
32	Recent Change and Verify Submember Equipage From GROW to SGRO (Equipped MSN/MDN K Blocks):		
	A. Miscellaneous Scan Block (MSN BLK) 0	TELCO	DLP-502
	B. Miscellaneous SD Block (MDN BLK) 0	TELCO	DLP-502
33	Install Matrix Equipage Strap and, at Matrix Frame **MML** Switch, Return **ALM RETIRE** Switch to Normal Position	INST	—
34	Diagnose Growth SP (Specifying Matrix and Growth)	INST	—
35	If DT Frames Associated With This SP Are Installed and Ready for Test, Assure That SP to DT Cabling Is Completed	INST	—
36	If MSN or MDN Equipage Blocks in This SP Matrix Are Assigned to Associated Growth DT or Growth MF Signaling Frame, Assure That Interface Cabling Is Completed	INST	—
37	At SP Bus Interface Units 0 and 1, at Controller 0, and at Pulse Point Logic Switch (If Equipped), Rotate **OFF** Switches on Power Switches to Normal Position. Controller 1 Power Switch to Remain **ROS**	INST	—
38	Enter Message To Run Audit 27 (AUD:NUM 27!); Wait for AUD:NUM 27 COMPLETE 0 ERRORS DETECTED Output Message	TELCO	—
39	Enter Message To Run Peripheral Unit Status Audit (AUD:PUSTAT!); Wait for Message Complete (MSG COMPL)	TELCO	—
40	Recent Change and Verify Member Equipage From GROW to OPER	TELCO	DLP-501
41	Enter Message To Restore and Initialize Controller 0 to Simplex Operation (RST:SP a,CONTR 0!) ATP and Restore COMPLETE Required; Installer Clear Equipment Troubles	TELCO/INST	—
42	Restore and Initialize Controller 1 to Duplex Operation (Using Power Switch)	TELCO/INST	DLP-505
43	Recent Change and Verify Submember Equipage From SGRO to OPER (Left Matrix Frame — BFE)	TELCO	DLP-502
	(Continued on Page 4)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
44	If MSN Block Is Equipped:		
	1. Enter Message To Run Audit 28 (**AUD:NUM 28!**); Wait for **AUD:NUM 28 COMPLETED 0 ERRORS DETECTED** Output Message	TELCO	—
	2. Recent Change and Verify Submember Equipage From SGRO to OPER (MSN BLK 0)	TELCO	DLP-502
45	If MDN Block Is Equipped, Recent Change and Verify Submember Equipage From SGRO to OPER (MDN BLK 0)	TELCO	DLP-502
46	Enter Message To Run Peripheral Unit Status Audit (**AUD:PUSTAT!**); Wait for Message Complete (**MSG COMPL**)	TELCO	—
47	At Matrix Frame, Diagnose Signal Processor Using **MML** Switch	TELCO/INST	DLP-500
48	If MDN K Block Is Equipped and Includes Pulse Point Circuitry, Restore Pulse Point Logic to Service (**RST:SP a,b 0!**)	TELCO/INST	DLP-542
49	Identify and Remove Pest Conditions Set in Growth SP Controller(s)	TELCO	DLP-543

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

		RESPONSIBILITY	
1	Verify SP Unit Type (UT) Translator and Compare Translations Data Against Wiring Records:		
	1. Verify SP UT Translator (**VER:UTYPE:SP** a!)	TELCO/INST	DLP-521
	2. If SP Interfaces With CCIS Type Digroup Terminal (DT): Verify PSEUDO SP2 UT Translator (**VER:UTYPE:SP** a!)	TELCO/INST	DLP-503
	3. Compare Translations Data Against Wiring Records	INST	—
2	Perform SP Frame Power Verification Tests and Assure That All Plug-Ins Are Properly Installed and Firmly Seated	INST	—
3	Remove Power From Controllers 0 and 1, Bus 0 and 1 Interface Units Using Power Switches	INST	—
4	Connect Private Signal Leads	INST	—
5	Place Strapping for K-Code, MI, GI, and Buffer Poll Option (Exclude Matrix Equipage Strap)	INST	—
6	Restore Power Using Frame Control Switches and Verify Alarm Cabling	INST	—
7	Verify Cabling and Assignments	INST	—
8	Extend or Insert the Peripheral Unit Bus per TOP 234-153-045, Then Continue This Procedure at Item 9 Upon Completion	TELCO/INST	—
9	Recent Change and Verify Member Equipage From UNEQ to GROW	TELCO	DLP-501
10	Recent Change and Verify Submember Equipage From UNEQ to GROW (DT Interface Circuit):		
	A. SP2EQ0 for E&M Type DT (Ports 0-3)	TELCO	DLP-502
	B. SP2EQ1 for CCIS Type DT (Ports 4-7)	TELCO	DLP-502
11	Enter Message **RMV:PUB 0**! To Remove Peripheral Unit Bus 0 From Service	TELCO	—
12	Apply Power to SP PU Bus Interface Unit 0 and Controllers 0 and 1	INST	—
13	Diagnose Frame Controllers 0 and 1 (PUB 0)	INST	—
14	Restore Peripheral Unit Bus 0 to Service (**RST:PUB 0**!)	TELCO	DLP-504
	(Continued on Page 2)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
15	Enter Message **RMV:PUB 1**! To Remove Peripheral Unit Bus 1 From Service	TELCO	—
16	Remove Power From Growth SP PU Bus Interface Unit 0	INST	—
17	Apply Power to SP PU Bus Interface Unit 1	INST	—
18	Diagnose Frame Controllers 0 and 1 (PUB 1)	INST	—
19	Restore Peripheral Unit Bus 1 to Service (**RST:PUB 1**!)	TELCO/INST	DLP-504
20	If Repair or Maintenance Was Required to IPUB or Controller Access Circuitry During IPUB 1 Testing:		
	1. Remove Power From Growth SP Bus Interface Unit 1	INST	—
	2. Repeat Items 11 Through 19	TELCO/INST	—
21	Restore Power to Growth SP PU Bus Interface Unit 0	INST	—
22	Diagnose Frame Controllers 0 and 1 With Memories (Specifying Memory and Growth)	INST	—
23	Recent Change and Verify Member Equipage From GROW to SGRO	TELCO	DLP-501
24	Diagnose Growth SP (Specifying Growth)	INST	—
25	If DT Frames Associated With This SP Are Installed and Ready for Test, Assure That SP to DT Cabling Is Completed	INST	—
26	At SP Bus Interface Units 0 and 1 and at Controller 0, Rotate **OFF** Switches on Power Switches to Normal Position. Controller 1 Power Switch to Remain **ROS**	INST	—
27	Enter Message To Run Audit 27 (**AUD:NUM 27**!); Wait for **AUD:NUM 27 COMPLETE 0 ERRORS DETECTED** Output Message	TELCO	—
28	Enter Message To Run Peripheral Unit Status Audit (**AUD:PUSTAT**!); Wait for Message Complete (**MSG COMPL**)	TELCO	—
29	Recent Change and Verify Member Equipage From SGRO to OPER	TELCO	DLP-501
30	Enter Message To Restore and Initialize Controller 0 to Simplex Operation (**RST:SP a,CONTR 0**!) ATP and Restore COMPLETE Required; Installer Clear Equipment Troubles	TELCO/INST	—
31	Restore and Initialize Controller 1 to Duplex Operation (Using Power Switch)	TELCO/INST	DLP-505
32	Identify and Remove Pest Conditions Set in Growth SP Controller(s)	TELCO	DLP-543

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

		RESPONSIBILITY	
1	Verify SP 2 Unit Type (UT) Translator and Compare Translations Data Against Wiring Records:		
	1. Verify Matrix Data of SP 2 UT Translator (**VER:UTYPE:SP** a!)	TELCO/INST	DLP-522
	2. Compare Translations Data Against Wiring Records	INST	—
2	Perform Stand Alone Power Verification Test on Matrix Frame	INST	—
3	Connect Growth Matrix Frame Private Signal Leads and Test Scan and SD Point Wiring	INST	—
4	Remove Temporary Power From Matrix Frame and Inhibit Alarms	INST	—
5	At Matrix Frame **MML** Switch, Rotate **ALM RETIRE** Switch to **RML**	INST	—
6	At Matrix Frame End Only, Connect SP to Matrix Interbay Cables	INST	—
7	Remove Power With Power Switch (Controller 0 — Bay 1); Installer Verify Matrix Fuse Locations Are Unequipped	TELCO/INST	—
8	At SP Control Frame Bay 1, Connect SP to Matrix Interbay Cables	INST	—
	CAUTION: Following completion of Item 8 and/or 11 and restoral of controller, if interrupts occur which implicate growth matrix and repair attempts fail, complete following before next busy hour. 1) Power down out-of-service controller, 2) remove added fuses and disconnect added cables, 3) reinstall fuses, and 4) restore controller to service.		
9	Insert Matrix Fuses and Restore Power (Controller 0 — Bay 1):	INST	—
	1. At Control Frame Bay 1, Install Fuses for Matrix Power	TELCO/INST	—
	2. Restore Power With Power Switch (Controller 0 — Bay 1)	TELCO/INST	DLP-522
10	Remove Power With Power Switch (Controller 1 — Bay 2); Installer Verify Matrix Fuse Locations are Unequipped	TELCO/INST	—
11	At SP Control Frame Bay 2, Connect SP to Matrix Interbay Cables	INST	—
	(Continued on Page 2)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
12	Insert Matrix Fuses and Restore Power (Controller 1 — Bay 2):		
	1. At Control Frame Bay 2, Install Fuses for Matrix Power	INST	—
	2. Restore Power With Power Switch (Controller 1 — Bay 2)	TELCO/INST	DLP-506
13	Recent Change and Verify Submember Equipage From UNEQ to GROW (Left Matrix Frame — BFE)	TELCO	DLP-502
14	Apply Pulse Point Power (If Equipped) and Enable Alarms Inhibited in Item 4	INST	—
15	Diagnose Operational SP Frame Controllers and Growth Matrix Equipment	TELCO/INST	DLP-507
16	Recent Change and Verify Submember Equipage From GROW to SGRO (Left Matrix Frame — BFE)	TELCO	DLP-502
17	Recent Change and Verify Submember Equipage From UNEQ to GROW [Equipped Miscellaneous Scan Number/Miscellaneous Distribution Number (MSN/MDN) K Block(s)]:		
	A. Miscellaneous Scan Block (MSN BLK) 0	TELCO	DLP-502
	B. Miscellaneous SD Block (MDN BLK) 0	TELCO	DLP-502
18	Diagnose Operational SP Frame Controllers and Growth Matrix Equipment	TELCO/INST	DLP-507
19	Recent Change and Verify Submember Equipage From GROW to SGRO [Equipped MSN/MDN K Blocks(s)]:		
	A. Miscellaneous Scan Block (MSN BLK) 0	TELCO	DLP-502
	B. Miscellaneous SD Block (MDN BLK) 0	TELCO	DLP-502
20	Install Matrix Equipage Scan Point Straps and, at Matrix Frame **MML** Switch, Return **ALM RETIRE** Switch to Normal Position	INST	—
21	Diagnose Operational SP Controllers and Growth Matrix Equipment	TELCO/INST	DLP-507
22	Recent Change and Verify Submember Equipage From SGRO to OPER (Left Matrix Frame — BFE)	TELCO	DLP-502
23	If MSN Block Is Equipped in This Supplementary Matrix Frame:		
	1. Enter Message To Run Audit 28 (**AUD:NUM 28!**); Wait for **AUD:NUM 28 COMPLETE 0 ERRORS DETECTED** Output Message	TELCO	—
	2. Recent Change and Verify Submember Equipage From SGRO to OPER (MSN BLK 0)	TELCO	DLP-502
	(Continued on Page 3)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
24	If MDN Block Is Equipped in This Supplementary Matrix Frame, Recent Change and Verify Submember Equipage From SGRO to OPER (MDN BLK 0)	TELCO	DLP-502
25	Enter Message To Run Peripheral Unit Status Audit (**AUD:PUSTAT!**); Wait for Message Complete (**MSG COMPL**)	TELCO	—
26	At Matrix Frame, Diagnose Signal Processor Using **MML** Switch	TELCO/INST	DLP-500
27	If MDN K Block Is Equipped and Includes Pulse Point Circuitry, Restore Pulse Point Logic to Service (**RST:SP a,b 0!**)	TELCO/INST	DLP-542
28	Identify and Remove Pest Conditions Set in Growth Associated SP Controller(s)	TELCO	DLP-543

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

		RESPONSIBILITY	
1	Select Universal Scan and SD Equipment and Determine Growth K Block Locations	INST	—
2	Verify UNEQ Status of Universal Scan and SD Equipage (**VER:UTYPE:SP** a,**SME** b!)	TELCO	DLP-515
3	Diagnose Operational SP Frame Controllers and Matrix Equipment	TELCO	DLP-531
4	At SP Control Frame **MML** Switch, Rotate **ALM RETIRE** Switch to **RML**	TELCO	—
5	At Distributor and Scanner Matrix (D&SM) and Distributor Applique (DA) Frames, Remove Fuses for Universal SD K Blocks Being Added:		
	1. Identify Fuse Assignments for Universal SD K Blocks Being Added	TELCO	DLP-523
	2. Remove Fuses for Universal SD K Blocks Being Added	TELCO	—
6	At D&SM Frame, Install dc-dc Converter Packs and Universal SD Circuit Packs for Block(s) Being Added	INST	—
7	At D&SM Frame, Install Fuses for Universal SD K Block(s) Being Added:		
	1. Identify Fuse Assignments for Universal SD K Blocks Being Added	TELCO	DLP-523
	2. Install Fuses for Universal SD K Blocks Being Added	TELCO	—
8	At DA Frame, Install Universal SD Circuit Packs for K Block(s) Being Added	INST	—
9	At DA Frame, Install Fuses for Universal SD K Block(s) Being Added:		
	1. Identify Fuse Assignments for Universal SD K Blocks Being Added	TELCO	DLP-523
	2. Install Fuses for Universal SD K Blocks Being Added	TELCO	—
10	At D&SM Frame, Remove Fuses for Universal Scan K Block(s) Being Added:		
	1. Identify Fuse Assignments for Universal Scan K Blocks Being Added	TELCO	DLP-525
	2. Remove Fuses for Universal Scan K Blocks Being Added	TELCO	—
11	At D&SM Frame, Install Universal Scan Point Circuit Packs for K Block(s) Being Added	INST	—
	(Continued on Page 2)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
12	At D&SM Frame, Install Fuses for Universal Scan K Block(s) Being Added:		
	1. Identify Fuse Assignments for Universal Scan K Blocks Being Added	TELCO	DLP-525
	2. Install Fuses for Universal Scan K Blocks Being Added	TELCO	—
13	Recent Change and Verify Submember Equipage From UNEQ to GROW [Growth SD K Block(s)]:		
	A. Universal SD K Block-TDN 0	TELCO	DLP-502
	B. Universal SD K Block-TDN 1	TELCO	DLP-502
	C. Universal SD K Block-TDN 2	TELCO	DLP-502
	D. Universal SD K Block-TDN 3	TELCO	DLP-502
14	Recent Change and Verify Submember Equipage From UNEQ to GROW [Growth Scan K Block(s)]:		
	A. Universal Scan Point K Block-TSN 0	TELCO	DLP-502
	B. Universal Scan Point K Block-TSN 1	TELCO	DLP-502
	C. Universal Scan Point K Block-TSN 2	TELCO	DLP-502
	D. Universal Scan Point K Block-TSN 3	TELCO	DLP-502
15	Diagnose Operational SP Frame Controllers and Growth Matrix Equipment	TELCO/INST	DLP-507
16	Enable **MML** Switch	TELCO/INST	DLP-530
	NOTE: Safe point to temporarily stop this procedure		
17	Recent Change and Verify Submember Equipage From GROW to SGRO [Growth SD K Block(s)]:		
	A. Universal SD K Block-TDN 0	TELCO	DLP-502
	B. Universal SD K Block-TDN 1	TELCO	DLP-502
	C. Universal SD K Block-TDN 2	TELCO	DLP-502
	D. Universal SD K Block-TDN 3	TELCO	DLP-502

(Continued on Page 3)

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
18	Recent Change and Verify Submember Equipage From GROW to SGRO [Growth Scan K Block(s)]:		
	A. Universal Scan Point K Block-TSN 0	TELCO	DLP-502
	B. Universal Scan Point K Block-TSN 1	TELCO	DLP-502
	C. Universal Scan Point K Block-TSN 2	TELCO	DLP-502
	D. Universal Scan Point K Block-TSN 3	TELCO	DLP-502
19	Install Scan Point Straps (Only for K Blocks Being Added)	INST	—
20	Diagnose Operational SP Frame Controllers and Growth Matrix Equipment	TELCO/INST	DLP-507
21	Enter Message To Run Audit 27 (**AUD:NUM 27!**) Wait for **AUD:NUM 27 COMPLETE 0 ERRORS DETECTED** Output Message	TELCO	—
22	Recent Change and Verify Submember Equipage From SGRO to OPER [Growth Scan K Block(s)]:		
	A. Universal Scan Point K Block-TSN 0	TELCO	DLP-502
	B. Universal Scan Point K Block-TSN 1	TELCO	DLP-502
	C. Universal Scan Point K Block-TSN 2	TELCO	DLP-502
	D. Universal Scan Point K Block-TSN 3	TELCO	DLP-502
23	Recent Change and Verify Submember Equipage From SGRO to OPER [Growth SD K Block(s)]:		
	A. Universal SD K Block-TDN 0	TELCO	DLP-502
	B. Universal SD K Block-TDN 1	TELCO	DLP-502
	C. Universal SD K Block-TDN 2	TELCO	DLP-502
	D. Universal SD K Block-TDN 3	TELCO	DLP-502
24	Enter Message To Run Peripheral Unit Status Aduit (**AUD:PUSTAT!**); Wait for Message Complete (**MSG COMPL**)	TELCO	—
25	At SP1 Control Frame, Diagnose Signal Processor Using **MML** Switch	TELCO/INST	DLP-500
26	Identify and Remove Pest Conditions Set in Growth Associated SP Controller(s)	TELCO	DLP-543

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

		RESPONSIBILITY	
1	Select Universal Scan and/or Miscellaneous Scan Equipment and Determine Growth K Block Location(s)	INST	—
2	Verify UNEQ Status of Universal Scan and/or Miscellaneous Scan Equipage (VER:UTYPE:SP a,SME b!)	TELCO	DLP-515
3	Diagnose Operational SP Frame Controllers and Matrix Equipment	TELCO	DLP-531
4	At SP Control Frame **MML** Switch, Rotate **ALM RETIRE** Switch to **RML**	TELCO	—
5	At D&SM Frame, Remove Fuses for Scan K Block(s) Being Added:		
	1. Identify Fuse Assignments for Scan K Block(s) Being Added	TELCO	DLP-526
	2. Remove Fuses for Scan K Block(s) Being Added	TELCO	—
6	Install Circuit Packs for Scan K Block(s) Being Added	INST	—
7	At D&SM Frame, Install Fuses for Scan K Block(s) Being Added:		
	1. Identify Fuse Assignments for Scan K Block(s) Being Added	TELCO	DLP-526
	2. Install Fuses for Scan K Block(s) Being Added	TELCO	—
8	Recent Change and Verify Submember Equipage From UNEQ to GROW [Growth Scan K Block(s)]:		
	A. Universal Scan Point K Block-TSN 0	TELCO	DLP-502
	B. Universal Scan Point K Block-TSN 1	TELCO	DLP-502
	C. Universal Scan Point K Block-TSN 2	TELCO	DLP-502
	D. Universal Scan Point K Block-TSN 3	TELCO	DLP-502
	E. Miscellaneous Scan Point K Block-MSN 0	TELCO	DLP-502
	F. Miscellaneous Scan Point K Block-MSN 1	TELCO	DLP-502
9	Diagnose Operational SP Frame Controllers and Growth Matrix Equipment	TELCO/INST	DLP-507
10	At SP 1 Control Frame, Enable **MML** Switch	TELCO/INST	DLP-530
	(Continued on Page 2)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
	NOTE: Safe point to temporarily stop this procedure		
11	Recent Change and Verify Submember Equipage From GROW to SGRO [Growth Scan K Block(s)]:		
	A. Universal Scan Point K Block-TSN 0	TELCO	DLP-502
	B. Universal Scan Point K Block-TSN 1	TELCO	DLP-502
	C. Universal Scan Point K Block-TSN 2	TELCO	DLP-502
	D. Universal Scan Point K Block-TSN 3	TELCO	DLP-502
	E. Miscellaneous Scan Point K Block-MSN 0	TELCO	DLP-502
	F. Miscellaneous Scan Point K Block-MSN 1	TELCO	DLP-502
12	Install Scan Point Straps [Only for K Block(s) Being Added]	INST	—
13	Diagnose Operational SP Frame Controllers and Growth Matrix Equipment	TELCO/INST	DLP-507
14	If MSN K Block(s) Is Being Added, Enter Message To Run Audit 28 (**AUD:NUM 28!**); Wait for **AUD:NUM 28 COMPLETE 0 ERRORS DETECTED** Output Message	TELCO	—
15	If TSN K Block(s) Is Being Added, Enter Message To Run Audit 27 (**AUD:NUM 27!**); Wait for **AUD:NUM 27 COMPLETE 0 ERRORS DETECTED** Output Message	TELCO	—
16	Recent Change and Verify Submember Equipage From SGRO to OPER [Growth Scan K Block(s)]:		
	A. Universal Scan Point K Block-TSN 0	TELCO	DLP-502
	B. Universal Scan Point K Block-TSN 1	TELCO	DLP-502
	C. Universal Scan Point K Block-TSN 2	TELCO	DLP-502
	D. Universal Scan Point K Block-TSN 3	TELCO	DLP-502
	E. Miscellaneous Scan Point K Block-MSN 0	TELCO	DLP-502
	F. Miscellaneous Scan Point K Block-MSN 1	TELCO	DLP-502
17	Enter Message To Run Peripheral Unit Status Audit (**AUD:PUSTAT!**); Wait for Message Complete (**MSG COMPL**)	TELCO	—
	(Continued on Page 3)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

18	At SP 1 Control Frame, Diagnose Signal Processor Using **MML** Switch	TELCO/INST	DLP-500
19	Identify and Remove Pest Conditions Set in Growth Associated SP Controller(s)	TELCO	DLP-543

ADD BLOCK(S) OF UNIVERSAL AND/OR MISC. SCAN POINTS (NO LIKE NUMBERED UNIVERSAL SD K BLOCK) TO SP 1 — SUPPORT TO INSTALLER (INST)

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

		RESPONSIBILITY	
1	Select Universal and/or Miscellaneous (Relay Only) SD Equipment and Determine Growth K Block Location(s)	INST	—
2	Verify UNEQ Status of Universal SD and/or Miscellaneous SD Equipage (**VER:UTYPE:SP** a,**SME** b!)	TELCO	DLP-515
3	Diagnose Operational SP Frame Controllers and Matrix Equipment	TELCO	DLP-531
4	At SP Control Frame **MML** Switch, Rotate **ALM RETIRE** Switch to **RML**	TELCO	—
5	At D&SM Frame and DA Frame, Remove Fuses for SD K Block(s) Being Added:		
	1. Identify Fuse Assignments for Universal and/or Miscellaneous SD K Block(s) Being Added	TELCO	DLP-527
	2. Remove Fuses for SD K Block(s) Being Added	TELCO	—
6	At D&SM Frame, Install dc-dc Converters for SD K Block(s) Being Added	INST	—
7	Install Circuit Packs for SD K Block(s) Being Added	INST	—
8	At D&SM Frame, Install Fuses for SD K Block(s) Being Added:		
	1. Identify Fuse Assignments for Universal and/or Miscellaneous SD K Block(s) Being Added	TELCO	DLP-527
	2. Install Fuses for SD K Block(s) Being Added	TELCO	—
9	At DA Frame, Install Circuit Packs for SD K Block(s) Being Added	INST	—
10	At DA Frame, Install Fuses for SD K Block(s) Being Added:		
	1. Identify Fuse Assignments for Universal and/or Miscellaneous SD K Block(s) Being Added	TELCO	DLP-527
	2. Install Fuses for SD K Block(s) Being Added	TELCO	—

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
11	Recent Change and Verify Submember Equipage From UNEQ to GROW [Growth SD K Block(s)]:		
	A. Universal SD Point K Block-TDN 0	TELCO	DLP-502
	B. Universal SD Point K Block-TDN 1	TELCO	DLP-502
	C. Universal SD Point K Block-TDN 2	TELCO	DLP-502
	D. Universal SD Point K Block-TDN 3	TELCO	DLP-502
	E. Miscellaneous SD Point K Block-MDN 0	TELCO	DLP-502
	F. Miscellaneous SD Point K Block-MDN 1	TELCO	DLP-502
12	Diagnose Operational SD Frame Controllers and Growth Matrix Equipment	TELCO/INST	DLP-507
13	At SP 1 Control Frame, Enable **MML** Switch	TELCO/INST	DLP-530
	NOTE: Safe point to temporarily stop this procedure		
14	Recent Change and Verify Submember Equipage From GROW to SGRO [Growth SD K Block(s)]:		
	A. Universal SD Point K Block-TDN 0	TELCO	DLP-502
	B. Universal SD Point K Block-TDN 1	TELCO	DLP-502
	C. Universal SD Point K Block-TDN 2	TELCO	DLP-502
	D. Universal SD Point K Block-TDN 3	TELCO	DLP-502
	E. Miscellaneous SD Point K Block-MDN 0	TELCO	DLP-502
	F. Miscellaneous SD Point K Block-MDN 1	TELCO	DLP-502
15	Recent Change and Verify Submember Equipage From SGRO to OPER [Growth SD K Block(s)]:		
	A. Universal SD Point K Block-TDN 0	TELCO	DLP-502
	B. Universal SD Point K Block-TDN 1	TELCO	DLP-502
	C. Universal SD Point K Block-TDN 2	TELCO	DLP-502
	D. Universal SD Point K Block-TDN 3	TELCO	DLP-502
	E. Miscellaneous SD Point K Block-MDN 0	TELCO	DLP-502
	F. Miscellaneous SD Point K Block-MDN 1	TELCO	DLP-502

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
16	Enter Message To Run Peripheral Unit Status Audit (**AUD:PUSTAT!**); Wait for Message Complete (**MSG COMPL**)	TELCO	—
17	At SP 1 Control Frame, Diagnose Signal Processor Using **MML** Switch	TELCO/INST	DLP-500
18	Identify and Remove Pest Conditions Set in Growth Associated SP Controller(s)	TELCO	DLP-543

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

		RESPONSIBILITY	
1	Select Miscellaneous SD Equipment and Determine Growth K Block Location(s)	INST	—
2	Verify Miscellaneous SD Data of SP UT Translator (**VER:UTYPE:SP** a!)	TELCO/INST	DLP-529
3	Diagnose Operational SP Frame Controllers and Matrix Equipment	TELCO	DLP-531
4	At SP Control Frame **MML** Switch, Rotate **ALM RETIRE** Switch to **RML**	TELCO	—
5	At Distributor and Scanner Matrix (D&SM) Frame and Distributor Applique (DA) Frame, Remove Fuses for K Blocks Being Added:		
	1. Identify Fuse Assignments for Miscellaneous SD K Block(s) Being Added	TELCO	DLP-524
	2. Remove Fuses for K Block(s) Being Added	TELCO	—
6	At D&SM Frame, Install dc-dc Converter Packs and Circuit Packs for K Block(s) Being Added	INST	—
7	At D&SM Frame, Install Fuses for K Block(s) Being Added:		
	1. Identify Fuse Assignments for Miscellaneous SD K Block(s) Being Added	TELCO	DLP-524
	2. Install Fuses for K Block(s) Being Added	TELCO	—
8	Remove Pulse Point Power With Power Switch:		
	A. If Adding K Block MDN 0, Remove Power With Power Switch (Left DA)	TELCO	—
	B. If Adding K Block MDN 1, Remove Power With Power Switch (Right DA)	TELCO	—
9	At DA Frame, Install dc-dc Converter Packs and Circuit Packs for K Block(s) Being Added	INST	—
10	At DA Frame, Install Fuses for K Block(s) Being Added:		
	1. Identify Fuse Assignments for Miscellaneous SD K Block(s) Being Added	TELCO	DLP-524
	2. Install Fuses for K Block(s) Being Added	TELCO	—
11	Restore Pulse Point Power With Power Switch:		
	A. If Adding K Block MDN 0, Restore Pulse Point Power With Power Switch (Left DA)	TELCO/INST	DLP-528
	B. If Adding K Block MDN 1, Restore Pulse Point Power With Power Switch (Right DA)	TELCO/INST	DLP-528
	(Continued on Page 2)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
12	If LEDs of All Converters Are Not Off at DA Pulse Point Power Switch, Momentarily Depress **ON** Switch	TELCO	—
13	Recent Change and Verify Submember Equipage From UNEQ to GROW [Growth SD K Block(s)]:		
	A. Miscellaneous SD K Block-MDN 0	TELCO	DLP-502
	B. Miscellaneous SD K Block-MDN 1	TELCO	DLP-502
14	Diagnose Operational SP Frame Controllers and Growth Matrix Equipment	TELCO/INST	DLP-507
15	At SP 1 Control Frame, Enable **MML** Switch	TELCO/INST	DLP-530
	NOTE: Safe point to temporarily stop this procedure		
16	Recent Change and Verify Submember Equipage From GROW to SGRO [Growth SD K Block(s)]:		
	A. Miscellaneous SD K Block-MDN 0	TELCO	DLP-502
	B. Miscellaneous SD K Block-MDN 1	TELCO	DLP-502
17	Recent Change and Verify Submember Equipage From SGRO to OPER [Growth SD K Block(s)]:		
	A. Miscellaneous SD K Block-MDN 0	TELCO	DLP-502
	B. Miscellaneous SD K Block-MDN 1	TELCO	DLP-502
18	Enter Message To Run Peripheral Unit Status Audit (**AUD:PUSTAT!**); Wait for Message Complete (**MSG COMPL**)	TELCO	—
19	At SP 1 Control Frame, Diagnose Signal Processor Using **MML** Switch	TELCO/INST	DLP-500
20	Restore Pulse Point Logic to Service (**RST:SP** a,b **0!**)	TELCO/INST	DLP-542
21	Identify and Remove Pest Conditions Set in Growth Associated SP Controller(s)	TELCO	DLP-543

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

		RESPONSIBILITY	
1	Select Miscellaneous SD Equipment and Determine Growth K Block Location(s)	TELCO	DLP-544
2	Verify Miscellaneous SD Data of SP Unit Type Translator (**VER:UTYPE:SP** a!)	TELCO	DLP-529
3	Diagnose Operational SP Frame Controllers and Matrix Equipment	TELCO	DLP-531
4	At SP Control Frame **MML** Switch, Rotate **ALM RETIRE** Switch to **RML**	TELCO	—
5	At Distributor and Scanner Matrix (D&SM) Frame and Distributor Applique (DA) Frame, Remove Fuses for K Block(s) Being Added:		
	1. Identify Fuse Assignments for SD K Block(s) Being Added	TELCO	DLP-524
	2. Remove Fuses for K Block(s) Being Added	TELCO	—
6	At D&SM Frame, Install dc-dc Converter Packs and Circuit Packs for K Block(s) Being Added	TELCO	DLP-546
7	At D&SM Frame, Install Fuses for K Block(s) Being Added:		
	1. Identify Fuse Assignments for SD K Block(s) Being Added	TELCO	DLP-524
	2. Install Fuses for K Block(s) Being Added	TELCO	—
8	Remove Pulse Point Power With Power Switch:		
	A. If Adding K Block MDN 0, Remove Pulse Point Power With Power Switch (Left DA)	TELCO	—
	B. If Adding K Block MDN 1, Remove Pulse Point Power With Power Switch (Right DA)	TELCO	—
9	At DA Frame, Install dc-dc Converter Packs and Circuit Packs for K Block(s) Being Added	TELCO	DLP-547
10	At DA Frame, Install Fuses for K Block(s) Being Added:		
	1. Identify Fuse Assignments for SD K Block(s) Being Added	TELCO	DLP-524
	2. Install Fuses for K Block(s) Being Added	TELCO	—
11	Restore Pulse Point Power With Power Switch:		
	A. If Adding K Block MDN 0, Restore Pulse Point Power With Power Switch (Left DA)	TELCO	—
	B. If Adding K Block MDN 1, Restore Pulse Point Power With Power Switch (Right DA)	TELCO	—
	(Continued on Page 2)		

ADD BLOCK(S) OF MISCELLANEOUS (COMBINATION RELAY AND PULSE) SIGNAL DISTRIBUTOR POINTS TO SIGNAL PROCESSOR 1

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
12	If LEDs of All Converters Are Not Off, At DA Pulse Point Power Switch: Momentarily Depress **ON** Switch	TELCO	—
13	Recent Change and Verify Submember Equipage From UNEQ to GROW [Growth SD K Block(s)]:		
	A. Miscellaneous SD K Block-MDN 0	TELCO	DLP-502
	B. Miscellaneous SD K Block-MDN 1	TELCO	DLP-502
14	Diagnose Operational SP Frame Controllers and Growth Matrix Equipment	TELCO	DLP-507
15	At SP 1 Control Frame, Enable **MML** Switch	TELCO	DLP-530
	NOTE: Safe point to temporarily stop this procedure		
16	Recent Change and Verify Submember Equipage From GROW to SGRO [Growth SD K Block(s)]:		
	A. Miscellaneous SD K Block-MDN 0	TELCO	DLP-502
	B. Miscellaneous SD K Block-MDN 1	TELCO	DLP-502
17	Recent Change and Verify Submember Equipage From SGRO to OPER [Growth SD K Block(s)]:		
	A. Miscellaneous SD K Block-MDN 0	TELCO	DLP-502
	B. Miscellaneous SD K Block-MDN 1	TELCO	DLP-502
18	Enter Message To Run Peripheral Unit Status Audit (**AUD:PUSTAT!**); Wait for Message Complete (**MSG COMPL**)	TELCO	—
19	At SP 1 Control Frame, Diagnose Signal Processor Using **MML** Switch	TELCO	DLP-500
20	Restore Pulse Point Logic to Service (**RST:SP** a,b **0!**)	TELCO	DLP-542
21	Identify and Remove Pest Conditions Set in Growth Associated SP Controllers	TELCO	DLP-543

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

		RESPONSIBILITY	
1	Select Universal Scan and SD Equipment and Determine Growth K Block Locations	TELCO	DLP-548
2	Verify UNEQ Status of Universal Scan and SD Equipage (**VER:UTYPE:SP** a,**SME** b!)	TELCO	DLP-515
3	Diagnose Operational SP Frame Controllers and Matrix Equipment	TELCO	DLP-531
4	At SP Control Frame **MML** Switch, Rotate **ALM RETIRE** Switch to **RML**	TELCO	—
5	At Distributor and Scanner Matrix (D&SM) Frame and Distributor Applique (DA) Frame, Remove Fuses for Universal SD K Block(s) Being Added:		
	1. Identify Fuse Assignments for Universal SD K Block(s) Being Added	TELCO	DLP-523
	2. Remove Fuses for K Block(s) Being Added	TELCO	—
6	At D&SM Frame, Install dc-dc Converter Packs and Universal SD Circuit Packs for K Block(s) Being Added	TELCO	DLP-549
7	At D&SM Frame, Install Fuses for Universal SD K Block(s) Being Added:		
	1. Identify Fuse Assignments for Universal SD K Block(s) Being Added	TELCO	DLP-523
	2. Install Fuses for K Block(s) Being Added	TELCO	—
8	At DA Frame, Install Universal SD Circuit Packs for K Block(s) Being Added	TELCO	DLP-550
9	At DA Frame, Install Fuses for Universal SD K Block(s) Being Added:		
	1. Identify Fuse Assignments for Universal SD K Block(s) Being Added	TELCO	DLP-523
	2. Install Fuses for K Block(s) Being Added	TELCO	—
10	At D&SM Frame, Remove Fuses for Universal Scan K Block(s) Being Added:		
	1. Identify Fuse Assignments for Universal Scan K Block(s) Being Added	TELCO	DLP-523
	2. Remove Fuses for K Block(s) Being Added	TELCO	—
11	At D&SM Frame, Install Universal Scan Point Circuit Packs for K Block(s) Being Added	TELCO	DLP-556
12	At D&SM Frame, Install Fuses for Universal Scan K Block(s) Being Added:		
	1. Identify Fuse Assignments for Universal Scan K Block(s) Being Added	TELCO	DLP-523
	2. Install Fuses for K Block(s) Being Added	TELCO	

ADD BLOCKS OF UNIVERSAL SCAN AND UNIVERSAL SIGNAL DISTRIBUTOR POINTS (LIKE K BLOCK NUMBERS) TO SIGNAL PROCESSOR 1

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
13	Recent Change and Verify Submember Equipage From UNEQ to GROW [Growth SD K Block(s)]:		
	A. Universal SD K Block-TDN 0	TELCO	DLP-502
	B. Universal SD K Block-TDN 1	TELCO	DLP-502
	C. Universal SD K Block-TDN 2	TELCO	DLP-502
	D. Universal SD K Block-TDN 3	TELCO	DLP-502
14	Recent Change and Verify Submember Equipage From UNEQ to GROW [Growth Scan K Block(s)]:		
	A. Universal Scan Point K Block-TSN 0	TELCO	DLP-502
	B. Universal Scan Point K Block-TSN 1	TELCO	DLP-502
	C. Universal Scan Point K Block-TSN 2	TELCO	DLP-502
	D. Universal Scan Point K Block-TSN 3	TELCO	DLP-502
15	Diagnose Operational SP Frame Controllers and Growth Matrix Equipment	TELCO	DLP-507
16	At SP 1 Control Frame, Enable **MML** Switch	TELCO	DLP-530
	NOTE: Safe point to temporarily stop this procedure		
17	Recent Change and Verify Submember Equipage From GROW to SGRO [Growth SD K Block(s)]:		
	A. Universal SD K Block-TDN 0	TELCO	DLP-502
	B. Universal SD K Block-TDN 1	TELCO	DLP-502
	C. Universal SD K Block-TDN 2	TELCO	DLP-502
	D. Universal SD K Block-TDN 3	TELCO	DLP-502
18	Recent Change and Verify Submember Equipage From GROW to SGRO [Growth Scan K Block(s)]:		
	A. Universal Scan Point K Block-TSN 0	TELCO	DLP-502
	B. Universal Scan Point K Block-TSN 1	TELCO	DLP-502
	C. Universal Scan Point K Block-TSN 3	TELCO	DLP-502
	D. Universal Scan Point K Block-TSN 3	TELCO	DLP-502
	(Continued on Page 3)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
19	Install Scan Point Straps (Only for K Blocks Being Added)	TELCO	DLP-551
20	Diagnose Operational SP Frame Controllers and Growth Matrix Equipment:		
	1. At SP 1 Control Frame **MML** Switch, Return **ALM RETIRE** Switch to Normal Position	TELCO	—
	2. Diagnose SP Frame Controllers and Growth Matrix Equipment	TELCO	DLP-507
	3. At SP 1 Control Frame **MML** Switch, Rotate **ALM RETIRE** Switch to **RML**	TELCO	—
21	Enter Message To Run Audit 27 (**AUD:NUM 27!**); Wait for **AUD:NUM 27 COMPLETE 0 ERRORS DETECTED** Output Message	TELCO	—
22	Recent Change and Verify Submember Equipage From SGRO to OPER [Growth Scan K Block(s)]:		
	A. Universal Scan Point K Block-TSN 0	TELCO	DLP-502
	B. Universal Scan Point K Block-TSN 1	TELCO	DLP-502
	C. Universal Scan Point K Block-TSN 2	TELCO	DLP-502
	D. Universal Scan Point K Block-TSN 3	TELCO	DLP-502
23	Recent Change and Verify Submember Equipage From SGRO to OPER [Growth SD K Block(s)]:		
	A. Universal SD K Block-TDN 0	TELCO	DLP-502
	B. Universal SD K Block-TDN 1	TELCO	DLP-502
	C. Universal SD K Block-TDN 2	TELCO	DLP-502
	D. Universal SD K Block-TDN 3	TELCO	DLP-502
24	Enter Message To Run Peripheral Unit Status Audit (**AUD:PUSTAT!**); Wait for Message Complete (**MSG COMPL**)	TELCO	—
25	At SP 1 Control Frame, Diagnose Signal Processor Using **MML** Switch	TELCO	DLP-500
26	Identify and Remove Pest Conditions Set in Growth Associated SP Controllers	TELCO	DLP-543

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

		RESPONSIBILITY	
1	Select Universal Scan and/or Miscellaneous Scan Equipment and Determine Growth K Block Locations	TELCO	DLP-552
2	Verify UNEQ Status of Universal Scan and/or Miscellaneous Scan Equipage (**VER:UTYPE:SP** a,**SME** b!)	TELCO	DLP-515
3	Diagnose Operational SP Frame Controllers and Matrix Equipment	TELCO	DLP-531
4	At SP 1 Control Frame **MML** Switch, Rotate **ALM RETIRE** Switch to **RML**	TELCO	—
5	At Distributor and Scanner Matrix (D&SM) Frame, Remove Fuses for Scan K Block(s) Being Added:		
	1. Identify Fuse Assignments for Scan K Block(s) Being Added	TELCO	DLP-526
	2. Remove Fuses for K Block(s) Being Added	TELCO	—
6	Install Circuit Packs for Scan K Block(s) Being Added	TELCO	DLP-557
7	Install Fuses Removed in Item 5		
8	Recent Change and Verify Submember Equipage From UNEQ to GROW [Growth Scan K Block(s)]:		
	A. Universal Scan Point K Block-TSN 0	TELCO	DLP-502
	B. Universal Scan Point K Block-TSN 1	TELCO	DLP-502
	C. Universal Scan Point K Block-TSN 2	TELCO	DLP-502
	D. Universal Scan Point K Block-TSN 3	TELCO	DLP-502
	E. Miscellaneous Scan Point K Block-MSN 0	TELCO	DLP-502
	F. Miscellaneous Scan Point K Block-MSN 1	TELCO	DLP-502
9	Diagnose Operational SP Frame Controllers and Growth Matrix Equipment	TELCO	DLP-507
10	At SP 1 Control Frame, Enable **MML** Switch	TELCO	DLP-530
	NOTE: Safe point to temporarily stop this procedure		
	(Continued on Page 2)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
11	Recent Change and Verify Submember Equipage From GROW to SGRO [Growth Scan K Block(s)]:		
	A. Universal Scan Point K Block-TSN 0	TELCO	DLP-502
	B. Universal Scan Point K Block-TSN 1	TELCO	DLP-502
	C. Universal Scan Point K Block-TSN 2	TELCO	DLP-502
	D. Universal Scan Point K Block-TSN 3	TELCO	DLP-502
	E. Miscellaneous Scan Point K Block-MSN 0	TELCO	DLP-502
	F. Miscellaneous Scan Point K Block-MSN 1	TELCO	DLP-502
12	Install Scan Point Straps [Only for K Block(s) Being Added]	TELCO	DLP-551
13	Diagnose Operational SP Frame Controllers and Growth Matrix Equipment:		
	1. At SP 1 Control Frame **MML** Switch, Return **ALM RETIRE** Switch to Normal Position	TELCO	—
	2. Diagnose Operational SP Frame Controllers and Growth Matrix Equipment	TELCO	DLP-507
	3. At SP 1 Control Frame **MML** Switch, Rotate **ALM RETIRE** Switch to **RML**	TELCO	—
14	If MSN K Block(s) Is Being Added, Enter Message To Run Audit 28 (**AUD:NUM 28!**); Wait for **AUD:NUM 28 COMPLETE 0 ERRORS DETECTED** Output Message	TELCO	—
15	If TSN K Block(s) Is Being Added, Enter Message To Run Audit 27 (**AUD:NUM 27!**); Wait for **AUD:NUM 27 COMPLETE 0 ERRORS DETECTED** Output Message	TELCO	—
16	Recent Change and Verify Submember Equipage From SGRO to OPER [Growth Scan K Block(s)]:		
	A. Universal Scan Point K Block-TSN 0	TELCO	DLP-502
	B. Universal Scan Point K Block-TSN 1	TELCO	DLP-502
	C. Universal Scan Point K Block-TSN 2	TELCO	DLP-502
	D. Universal Scan Point K Block-TSN 3	TELCO	DLP-502
	E. Miscellaneous Scan Point K Block-MSN 0	TELCO	DLP-502
	F. Miscellaneous Scan Point K Block-MSN 1	TELCO	DLP-502
	(Continued on Page 3)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

17	Enter Message To Run Peripheral Unit Status Audit (**AUD:PUSTAT!**); Wait for Message Complete (**MSG COMPL**)	TELCO	—
18	At SP 1 Control Frame, Diagnose Signal Processor Using **MML** Switch	TELCO	DLP-500
19	Identify and Remove Pest Conditions Set in Growth Associated SP Controllers	TELCO	DLP-543

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

		RESPONSIBILITY	
1	Select Universal and/or Miscellaneous (Relay Only) SD Equipment and Determine Growth K Block Location(s)	TELCO	DLP-553
2	Verify UNEQ Status of Universal SD and/or Miscellaneous SD Equipage (**VER:UTYPE:SP** a,**SME** b!)	TELCO	DLP-515
3	Diagnose Operational SP Frame Controllers and Matrix Equipment	TELCO	DLP-531
4	At SP Control Frame **MML** Switch, Rotate **ALM RETIRE** Switch to **RML**	TELCO	—
5	At D&SM and DA, Remove Fuses for SD K Block(s) Being Added:		
	1. Identify Fuse Assignments for SD K Block(s) Being Added	TELCO	DLP-527
	2. Remove Fuses for SD K Block(s) Being Added	TELCO	—
6	At D&SM, Install dc-dc Converter Packs and Circuit Packs for SD K Block(s) Being Added	TELCO	DLP-554
7	At D&SM, Insert Fuses Removed in Item 5	TELCO	—
8	At DA, Install Circuit Packs for SD K Block(s) Being Added	TELCO	DLP-555
9	At DA, Insert Fuses Removed in Item 5	TELCO	—
10	Recent Change and Verify Submember Equipage From UNEQ to GROW [Growth SD K Block(s)]:		
	A. Universal SD Point K Block-TDN 0	TELCO	DLP-502
	B. Universal SD Point K Block-TDN 1	TELCO	DLP-502
	C. Universal SD Point K Block-TDN 2	TELCO	DLP-502
	D. Universal SD Point K Block-TDN 3	TELCO	DLP-502
	E. Miscellaneous SD Point K Block-MDN 0	TELCO	DLP-502
	F. Miscellaneous SD Point K Block-MDN 1	TELCO	DLP-502
11	Diagnose Operational SP Frame Controllers and Growth Matrix Equipment	TELCO	DLP-507
12	Enable **MML** Switch	TELCO	DLP-530
	NOTE: Safe point to temporarily stop this procedure		
	(Continued on Page 2)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
13	Recent Change and Verify Submember Equipage From GROW to SGRO [Growth SD K Block(s)]:		
	A. Universal SD Point K Block-TDN 0	TELCO	DLP-502
	B. Universal SD Point K Block TDN 1	TELCO	DLP-502
	C. Universal SD Point K Block-TDN 2	TELCO	DLP-502
	D. Universal SD Point K Block-TDN 3	TELCO	DLP-502
	E. Miscellaneous SD Point K Block-MDN 0	TELCO	DLP-502
	F. Miscellaneous SD Point K Block-MDN 1	TELCO	DLP-502
14	Recent Change and Verify Submember Equipage From SGRO to OPER [Growth SD K Block(s)]:		
	A. Universal SD Point K Block-TDN 0	TELCO	DLP-502
	B. Universal SD Point K Block-TDN 1	TELCO	DLP-502
	C. Universal SD Point K Block-TDN 2	TELCO	DLP-502
	D. Universal SD Point K Block-TDN 3	TELCO	DLP-502
	E. Miscellaneous SD Point K Block-MDN 0	TELCO	DLP-502
	F. Miscellaneous SD Point K Block-MDN 1	TELCO	DLP-502
15	Enter Message To Run Peripheral Unit Status Audit (**AUD:PUSTAT!**); Wait for Message Complete (**MSG COMPL**)	TELCO	—
16	At SP 1 Control Frame, Diagnose Signal Processor Using **MML** Switch	TELCO	DLP-500
17	Identify and Remove Pest Conditions Set in Growth Associated SP Controller(s)	TELCO	DLP-543

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

		RESPONSIBILITY	
1	Determine From Company Order, SP Frame To Be Degrown and Associated MFS/VIF/DT, As Required	TELCO/INST	—
2	Assure That Following Prerequisites Have Been Met: • Associated MFS/VIF/DT Degrowth Is Completed Per TOPs 234-153-030 or 234-153-050 • All Connections Between Associated MFS/VIF/DT and Degrowth SP Have Been Removed • All Miscellaneous Scan, SD, and Pulse Points That Are Presently in Use Must Be Reassigned to Other SPs	TELCO/INST	—
3	Set Pests for Controllers 0 and 1 in Degrowth SP (**INH:SP** a,**CONTR** b,**ALL!**)	TELCO	—
4	If Matrix Frame Is Equipped and Includes Pulse Point Circuitry:		
	1. If Left Matrix Frame Is Equipped, Remove Pulse Point Logic From Service (**RMV:SP** a,**PPL 0!**)	TELCO	—
	2. If Right Matrix Frame Is Equipped, Remove Pulse Point Logic From Service (**RMV:SP** a,**PPR 0!**)	TELCO	—
	3. Remove Power From Degrowth SP Pulse Points Using Power Switches	TELCO	—
5	Recent Change and Verify Submember Equipage From OPER to SGRO (Degrow) Using RC Form 701 (Equipped K Blocks and/or SP2 DT Interface Units, As Applicable):		
	1. If Left Matrix Frame and/or SP2 DT Interface Unit(s) Is Equipped:		
	A. Universal Scan Point K Block — TSN 0	TELCO	DLP-541
	B. Universal SD Point K Block — TDN 0	TELCO	DLP-541
	C. Universal Scan Point K Block — TSN 2	TELCO	DLP-541
	D. Universal SD Point K Block — TDN 2	TELCO	DLP-541
	E. Miscellaneous Scan Point K Block — MSN 0	TELCO	DLP-541
	F. Miscellaneous SD Point K Block — MDN 0	TELCO	DLP-541
	G. SP2 DT Interface Unit 0	TELCO	DLP-541
	H. SP2 DT Interface Unit 1	TELCO	DLP-541
	(Continued on Page 2)		

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
5 (Contd)	I. SP2 DT Interface Unit 2	TELCO	DLP-541
	J. SP2 DT Interface Unit 3	TELCO	DLP-541
	2. If Right Matrix Frame Is Equipped:		
	A. Universal Scan Point K Block — TSN 1	TELCO	DLP-541
	B. Universal SD Point K Block — TDN 1	TELCO	DLP-541
	C. Universal Scan Point K Block — TSN 3	TELCO	DLP-541
	D. Universal SD Point K Block — TDN 3	TELCO	DLP-541
	E. Miscellaneous Scan Point K Block — MSN 1	TELCO	DLP-541
	F. Miscellaneous SD Point K Block — MDN 1	TELCO	DLP-541
6	Recent Change and Verify Submember Equipage From OPER to SGRO (Degrow) Using RC Form 701 [Equipped Matrix Frame(s)]:		
	A. Left Matrix Frame	TELCO	DLP-541
	B. Right Matrix Frame	TELCO	DLP-541
7	Recent Change and Verify Degrowth SP Member Equipage From OPER to SGRO (Degrow) Using RC Form 701	TELCO	DLP-540
8	Enter Message To Run Peripheral Unit Status Audit (**AUD:PUSTAT!**); Wait for Message Complete (**MSG COMPL**)	TELCO	—
9	Recent Change and Verify Submember Equipage From SGRO to GROW (Degrow) Using RC Form 701 (Equipped K Blocks and/or SP2 DT Interface Units, As Applicable):		
	1. If Left Matrix Frame and/or SP2 DT Interface Unit(s) Is Equipped:		
	A. Universal Scan Point K Block — TSN 0	TELCO	DLP-541
	B. Universal SD Point K Block — TDN 0	TELCO	DLP-541
	C. Universal Scan Point K Block — TSN 2	TELCO	DLP-541
	D. Universal SD Point K Block — TDN 2	TELCO	DLP-541
	E. Miscellaneous Scan Point K Block — MSN 0	TELCO	DLP-541
	F. Miscellaneous SD Point K Block — MDN 0	TELCO	DLP-541

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
9 (Contd)	G. SP2 DT Interface Unit 0	TELCO	DLP-541
	H. SP2 DT Interface Unit 1	TELCO	DLP-541
	I. SP2 DT Interface Unit 2	TELCO	DLP-541
	J. SP2 DT Interface Unit 3	TELCO	DLP-541
	2. If Right Matrix Frame Is Equipped:		
	A. Universal Scan Point K Block — TSN 1	TELCO	DLP-541
	B. Universal SD Point K Block — TDN 1	TELCO	DLP-541
	C. Universal Scan Point K Block — TSN 3	TELCO	DLP-541
	D. Universal SD Point K Block — TDN 3	TELCO	DLP-541
	E. Universal Miscellaneous Scan Point K Block — MSN 1	TELCO	DLP-541
	F. Universal Miscellaneous SD Point K Block — MDN 1	TELCO	DLP-541
10	Recent Change and Verify Submember Equipage From SGRO to GROW (Degrow) Using RC Form 701 [Equipped Matrix Frame(s)]:		
	A. Left Matrix Frame	TELCO	DLP-541
	B. Right Matrix Frame	TELCO	DLP-541
11	Recent Change and Verify Degrowth SP Member Equipage From SGRO to GROW (Degrow) Using RC Form 701	TELCO	DLP-540
12	Recent Change and Verify Submember Equipage From GROW to UNEQ (Degrow) Using RC Form 701 (Equipped K Blocks and/or SP2 DT Interface Units, As Applicable):		
	1. If Left Matrix Frame and/or SP2 Interface Unit(s) Is Equipped:		
	A. Universal Scan Point K Block — TSN 0	TELCO	DLP-541
	B. Universal SD Point K Block — TDN 0	TELCO	DLP-541
	C. Universal Scan Point K Block — TSN 2	TELCO	DLP-541
	D. Universal SD Point K Block — TDN 2	TELCO	DLP-541
	E. Universal Miscellaneous Scan Point K Block — MSN 0	TELCO	DLP-541

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
12 (Contd)	F. Universal Miscellaneous SD Point K Block — MDN 0	TELCO	DLP-541
	G. SP2 DT Interface Unit 0	TELCO	DLP-541
	H. SP2 DT Interface Unit 1	TELCO	DLP-541
	I. SP2 DT Interface Unit 2	TELCO	DLP-541
	J. SP2 DT Interface Unit 3	TELCO	DLP-541
	2. If Right Matrix Frame Is Equipped:		
	A. Universal Scan Point K Block — TSN 1	TELCO	DLP-541
	B. Universal SD Point K Block — TDN 1	TELCO	DLP-541
	C. Universal Scan Point K Block — TSN 3	TELCO	DLP-541
	D. Universal SD Point K Block — TDN 3	TELCO	DLP-541
	E. Miscellaneous Scan Point K Block — MSN 1	TELCO	DLP-541
	F. Miscellaneous SD Point K Block — MDN 1	TELCO	DLP-541
13	Recent Change and Verify Submember Equipage From GROW to UNEQ (Degrow) Using RC Form 701 [Equipped Matrix Frame(s)]:		
	A. Left Matrix Frame	TELCO	DLP-541
	B. Right Matrix Frame	TELCO	DLP-541
14	Remove Power From Controllers 0 and 1 and Bus 0 and 1 Interface Units Using Power Switches on Degrowth SP	TELCO	—
15	Remove Degrowth SP From Peripheral Unit Bus Using Selected Option A or B in TOP 234-153-045, Then Continue This Procedure at Item 16 Upon Completion:		
	A. When Degrowth Frame Is Last Frame on Peripheral Unit Bus Branch	TELCO/INST	—
	B. When Degrowth Frame Is Between Two Operational Frames on Peripheral Unit Bus Branch	TELCO/INST	—
16	Recent Change and Verify Degrowth SP Member Equipage From GROW to UNEQ (Degrow) Using RC Form 701	TELCO	DLP-540
17	Remove Alarm Cables From Degrowth SP. If Degrowth Frame Is in Middle of Line-up, Place New Cable Between Remaining Frames To Bridge Open	INST	—

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
18	Remove Private Signal Leads	INST/TELCO	—
19	Remove +140V, +24V, and -24V Power From Degrowth SP at Power Distribution Frame	INST	—
20	Remove Degrowth SP Common Circuits (Telephone Jack, TTY Jacks, Appliance Outlets, and Ground Strap)	INST	—
21	Remove Degrown SP and Matrix Frame(s) From Line-up	INST	—

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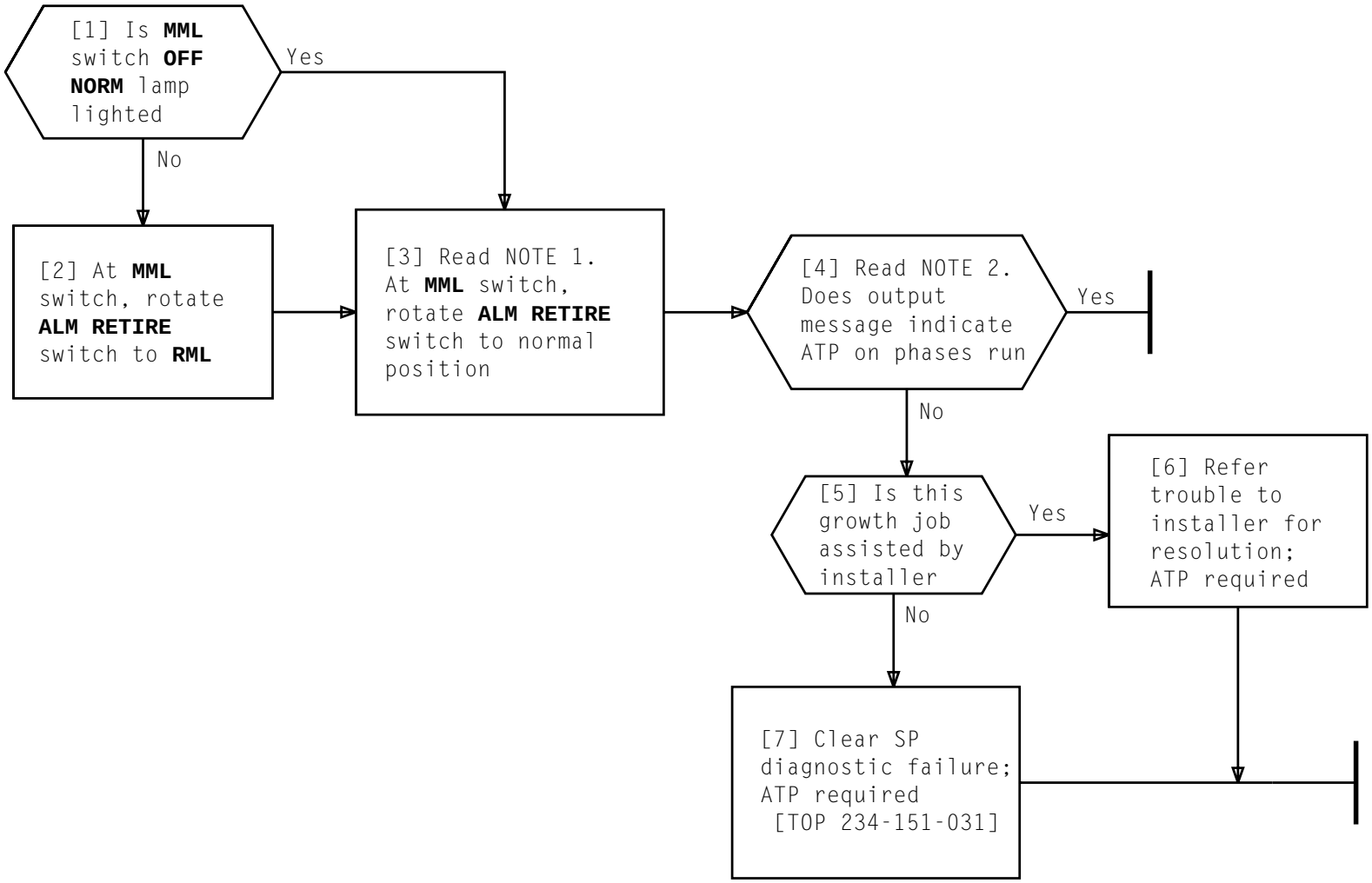

NOTES

1. When **MML** switch is placed in normal position, **ACK** and **MTCE LIMIT** lamps are lighted and **OFF NORM** lamp is off. An automatic diagnostic will occur on SP
2. If diagnostics indicate ATP, **ACK** and **MTCE LIMIT** lamps will go off. If diagnostic fails, **MTCE LIMIT** lamp will remain lighted and **ACK** lamp will go off

DIAGNOSE SIGNAL PROCESSOR USING MML SWITCH

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SUMMARY

Call up recent change (RC) Form 700 on CRT. Using TTY, fill in blanks on RC Form 700 to change member equipage. Using assigned order number, activate recent change, then verify current translations.

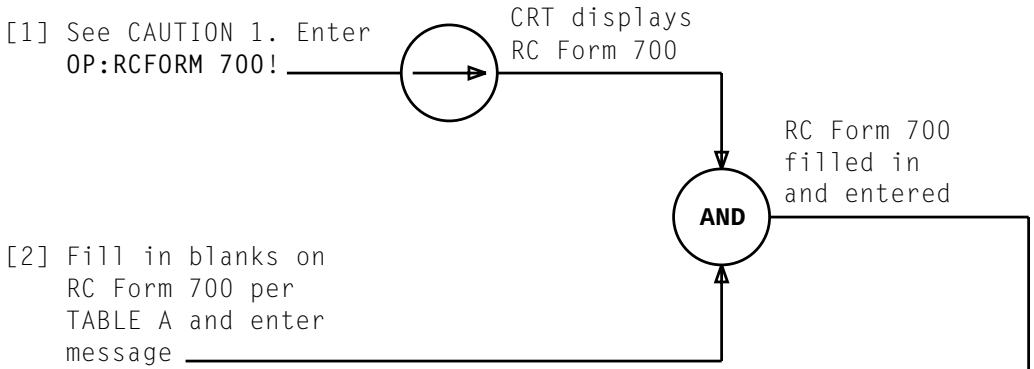


TABLE A

```
RC:UTYPE;CHG;OPT(EQP,GROW),TST:       UTYN a,

ORNU b,
                      OLD  NEW
MEMN c,          ME (  d ,  d  ),
                      OLD  NEW
SUBMEM ----,    SME (----, ----),

REMARKS----------------------------!
```

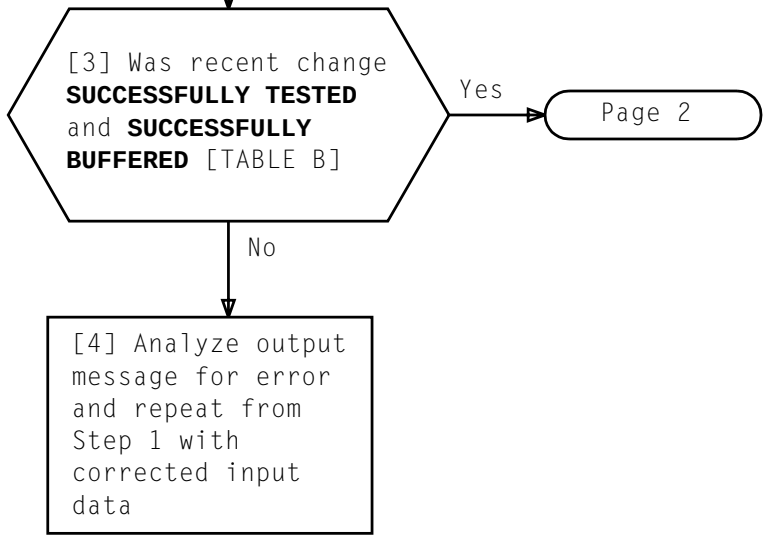
a = Unit type = SP
b = RC order number
c = Member number of growth SP
d = UNEQ, GROW or GROW, SGRO or SGRO, OPER

TABLE B

```
RC ORNU a SUCCESSFULLY TESTED
RC ORNU a SUCCESSFULLY BUFFERED
RC:UTYPE;CHG;OPT(EQP,GROW),BUF:       UTYN SP,
ORNU a,
                      OLD  NEW
MEMN b,          ME (  c ,  c  ),
                      OLD  NEW
SUBMEM ----,    SME (----, ----),

REMARKS----------------------------!
```

a = RC order number
b = Member number of growth SP
c = Entered member equipage



CAUTION 1
Calling up RC form will cause all CRT data to be cleared

RECENT CHANGE AND VERIFY MEMBER EQUIPAGE

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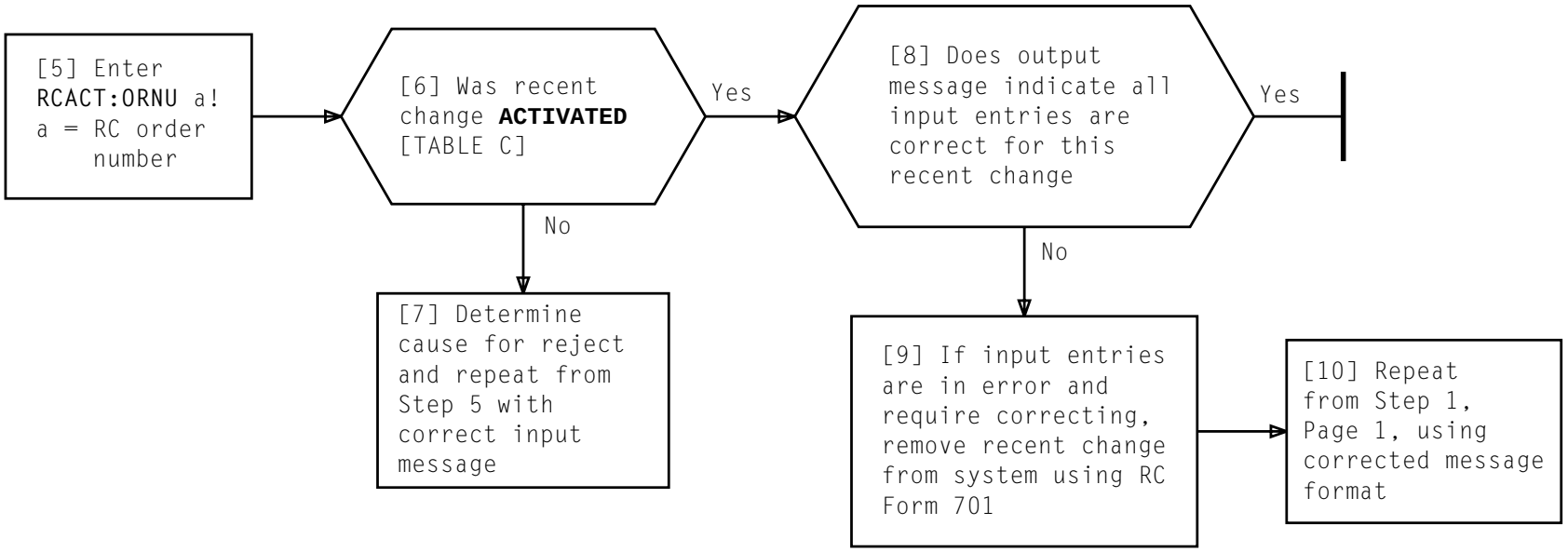

TABLE C

```
RC ORNU a ACTIVATED
RC:UTYPE;CHG;OPT(EQP,GROW),BUF:      UTYN SP,
ORNU a,
                      OLD  NEW
MEMN b,          ME (  c ,  c  ),
                      OLD  NEW
SUBMEM ----,    SME (----, ----),

REMARKS----------------------------!
```

a = RC order number
b = Member number of growth frame
c = Entered member equipage

RECENT CHANGE AND VERIFY MEMBER EQUIPAGE

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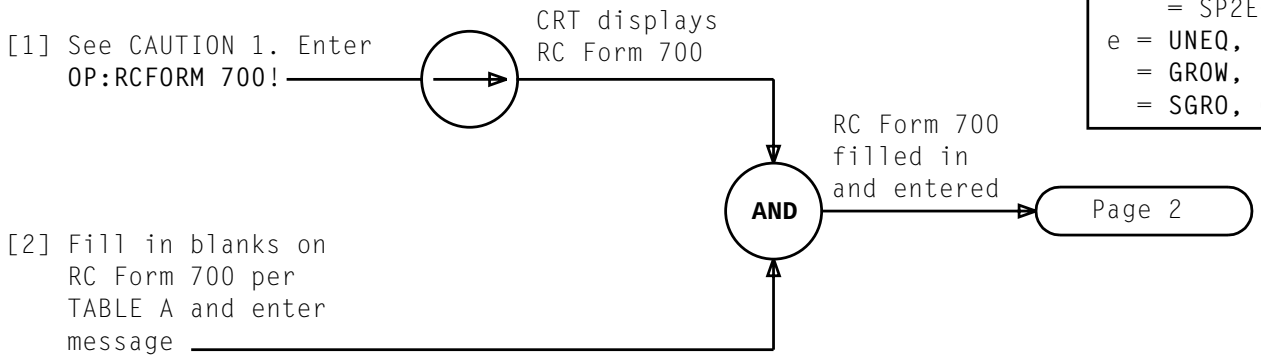
SUMMARY

Call up recent change (RC) Form 700 on CRT. Using TTY, fill in blanks on RC Form 700 to change submember equipage. Using the assigned order number, activate the recent change then verify current translations.

TABLE A

```
RC:UTYPE;CHG;OPT(EQP,GROW),TST:          UTYN a,
ORNU b,
                          OLD  NEW
MEMN c,          ME   (----, ----),
                          OLD  NEW
SUBMEM d,        SME  ( e   ,  e  ),
REMARKS---------------------------!
```

a = Unit type = SP
b = RC order number
c = Member number of growth associated SP
d = Submember name
  = TSNBLK(0 to 3) (for Univ Scan Block 0-3)
  = TDNBLK(0 to 3) (for Univ SD Block 0-3)
  = MSNBLK(0 or 1) (for Misc Scan Block 0 or 1)
  = MDNBLK(0 or 1) (for Misc SD Block 0 or 1)
  = BFE (for Left Matrix Equipage)
  = CFE (for Right Matrix Equipage)
  = SP2EQ(0 to 3) (for SP2 DT Interface Unit 0-3)
e = UNEQ, GROW or
  = GROW, SGRO or
  = SGRO, OPER



CAUTION 1
Calling up RC form will cause all CRT data to be cleared

RECENT CHANGE AND VERIFY SUBMEMBER EQUIPAGE

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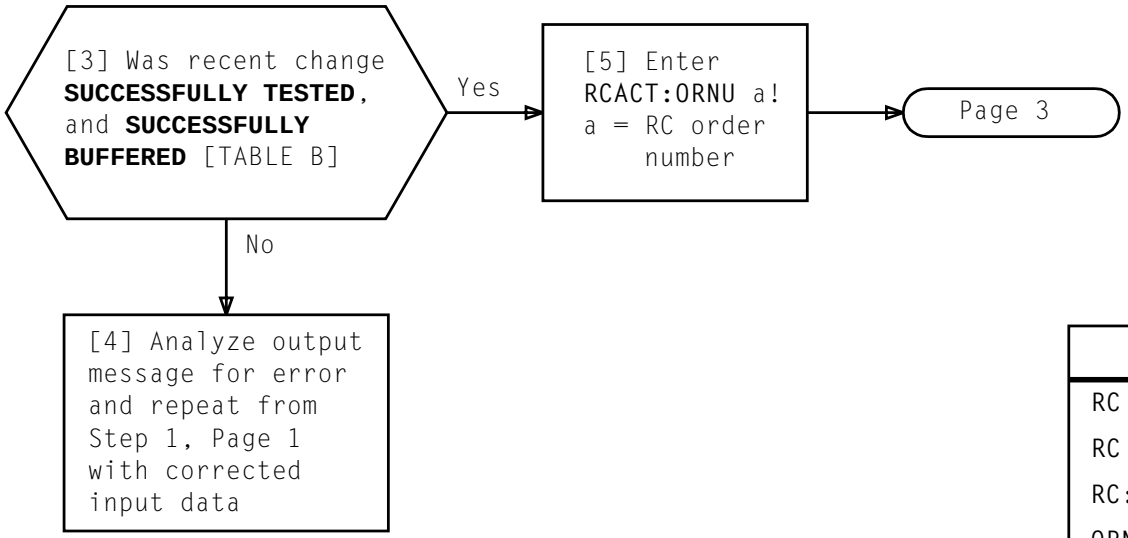

TABLE B

```
RC ORNU a SUCCESSFULLY TESTED

RC ORNU a SUCCESSFULLY BUFFERED

RC:UTYPE;CHG;OPT(EQP,GROW),BUF:      UTYN SP,

ORNU a,
                        OLD  NEW
MEMN b,          ME   (----, ----),
                        OLD  NEW
SUBMEM c,        SME (  d ,  d  ),

REMARKS----------------------------!
```

```
a = RC order number
b = Member number of growth associated SP
c = Submember name:
    = TSNBLK(0 to 3) (for Univ Scan block 0-3)
    = TDNBLK(0 to 3) (for Univ SD Block 0-3)
    = MSNBLK(0 to 1) (for Misc Scan Block 0 or 1)
    = MDNBLK(0 to 1) (for Misc SD Block 0 or 1)
    = BFE (for Left Matrix Equipage)
    = CFE (for Right Matrix Equipage)
    = SP2EQ (0 to 3) (for SP2 DT Interface Unit 0-3)
d   = Entered submember equipage
```


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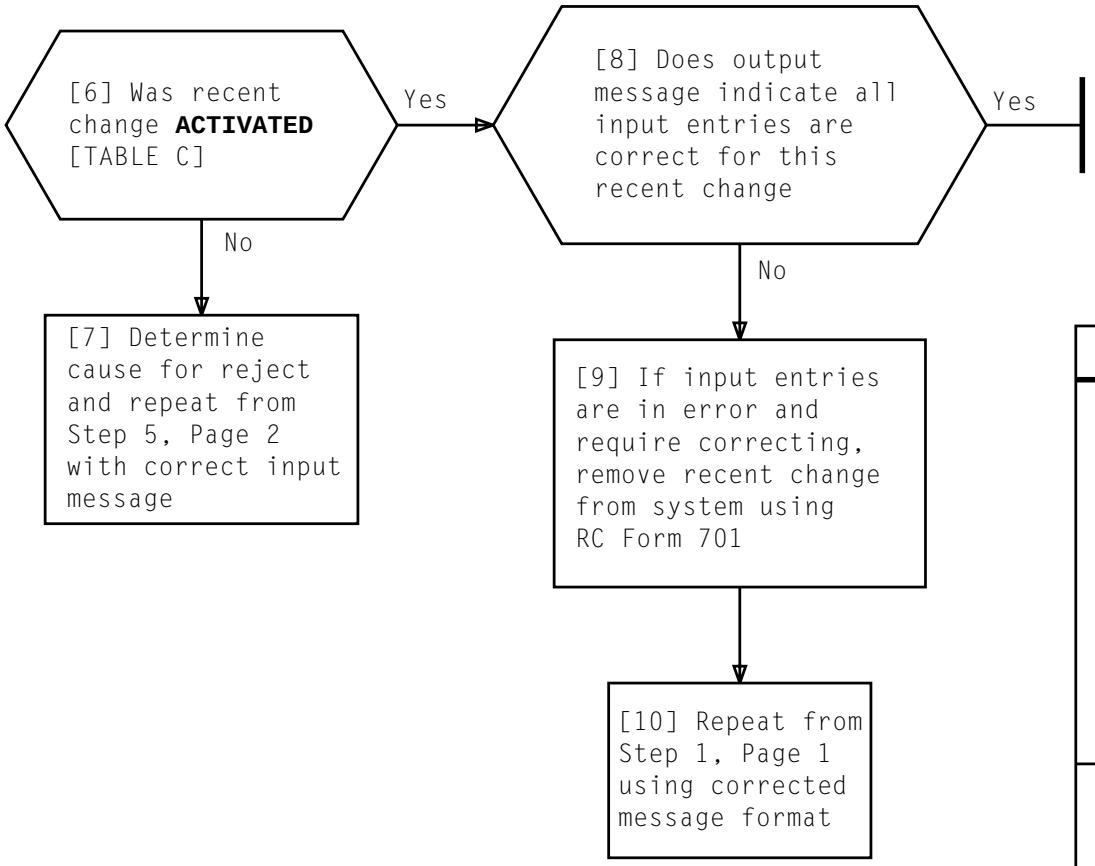

TABLE C

```
RC ORNU a ACTIVATED


RC:UTYPE;CHG;OPT(EQP,GROW),BUF:      UTYN SP,
ORNU a,
                        OLD   NEW
MEMN b,           ME (----, ----),
                        OLD   NEW
SUBMEM c,       SME (  d ,  d  ),

REMARKS----------------------------!
```

a = RC order number
b = Member number of growth associated SP
c = Submember name:
- = TSNBLK(0 to 3) (for Univ Scan block 0-3)
- = TDNBLK(0 to 3) (for Univ SD Block 0-3)
- = MSNBLK(0 to 1) (for Misc Scan Block 0 or 1)
- = MDNBLK(0 to 1) (for Misc SD Block 0 or 1)
- = BFE (for Left Matrix Equipage)
- = CFE (for Right Matrix Equipage)
- = SP2EQ (0 to 3) (for SP2 DT Interface Unit 0-3)

d = Entered submember equipage

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SUMMARY

Using verify input message, call up PSEUDO SP2 UT translator and verify that the resulting TTY octal output data, when converted, agrees with office records. Refer to entry word explanations in TABLE B, Page 4 as required, for assistance in interpreting specific data fields. If it is determined that UT entry data are in error, word changes(s) may be required.

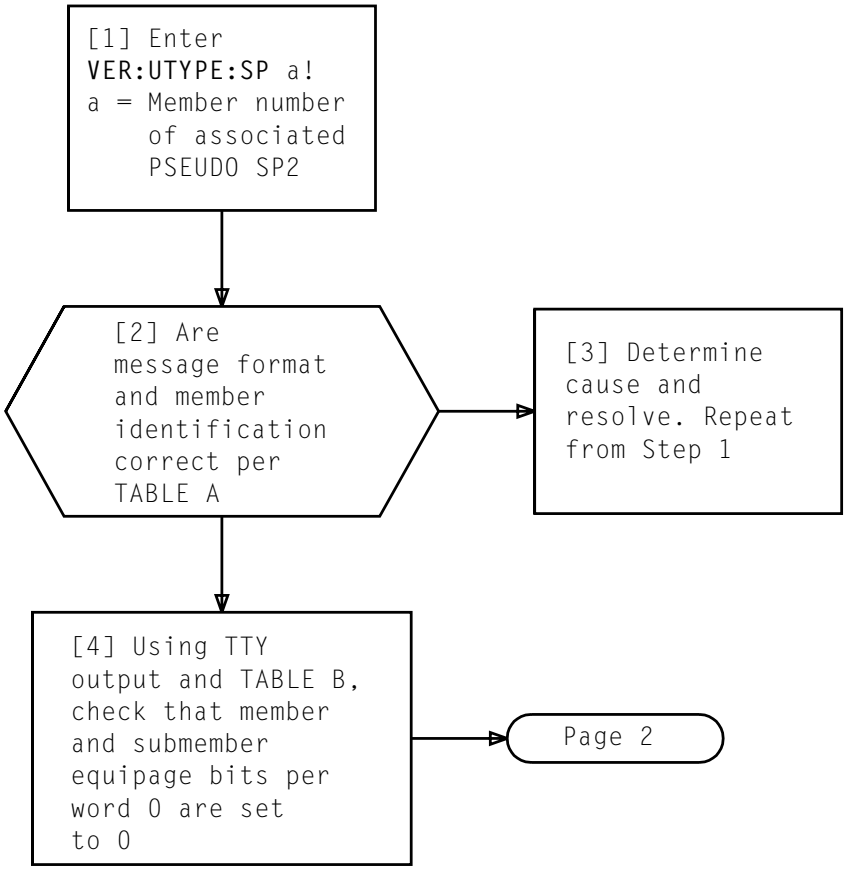

TABLE A

VER:UTMN;OPT( ),CUR: FLN a, UTYN SP,

MEMN b, ME UNEQ,
ENTRY ADDRESS c, ENTRY SIZE 16,

CUR
WORD 0 _____ _____ _____ _____
_____ _____ _____ _____
WORD 10 _____ _____ _____ _____
_____ _____ _____ _____

a = Floor location number
b = Member number of associated PSEUDO SP 2
c = Starting octal address for unit type entry

VERIFY PSEUDO SP2 UT TRANSLATOR

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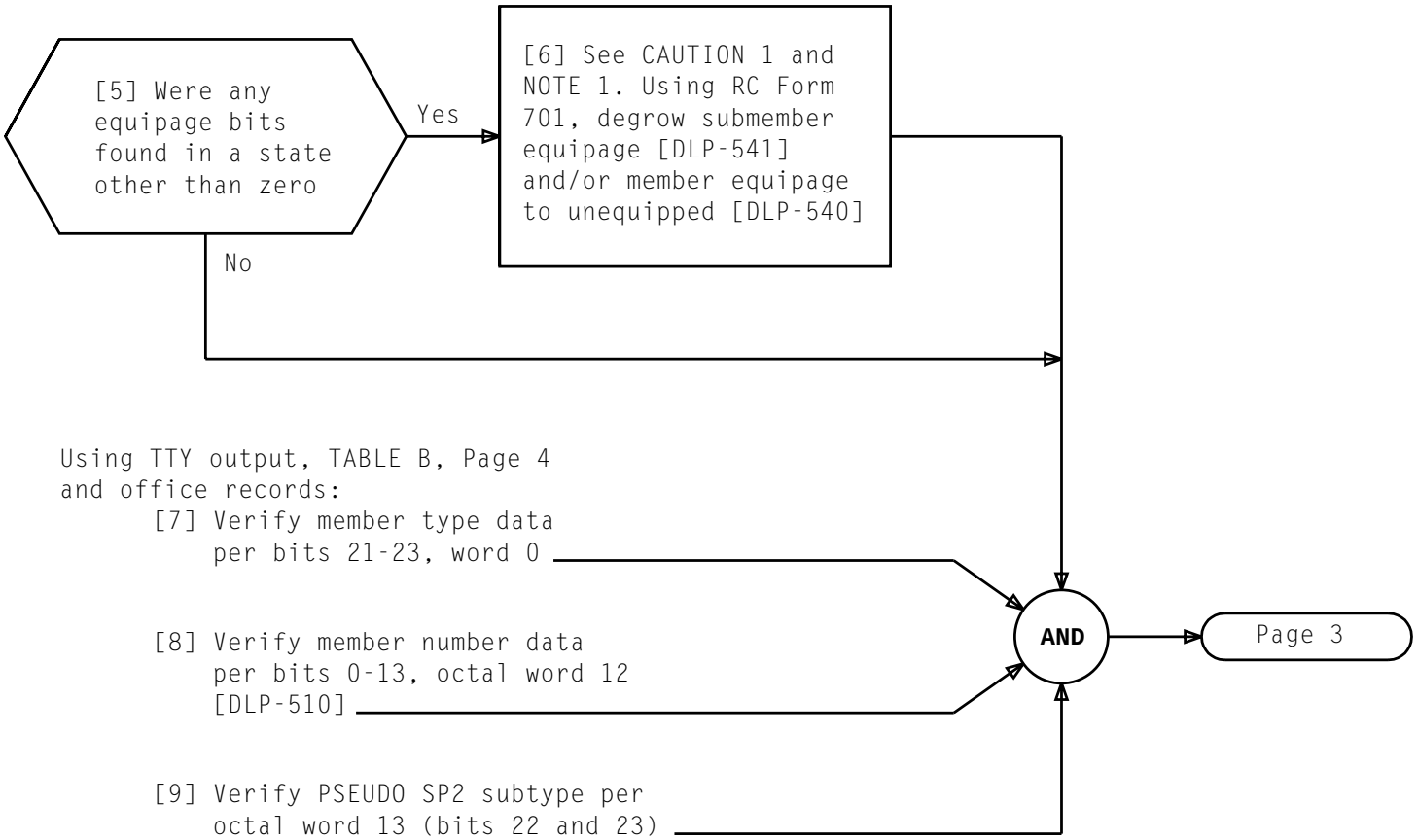

NOTE 1
Submember equipage must be degrown first, if required, followed by degrowth of member equipage, if required

CAUTION 1
Depending on local procedures, supervisory or TELCO engineering approval must be obtained prior to performing any data change

VERIFY PSEUDO SP2 UT TRANSLATOR

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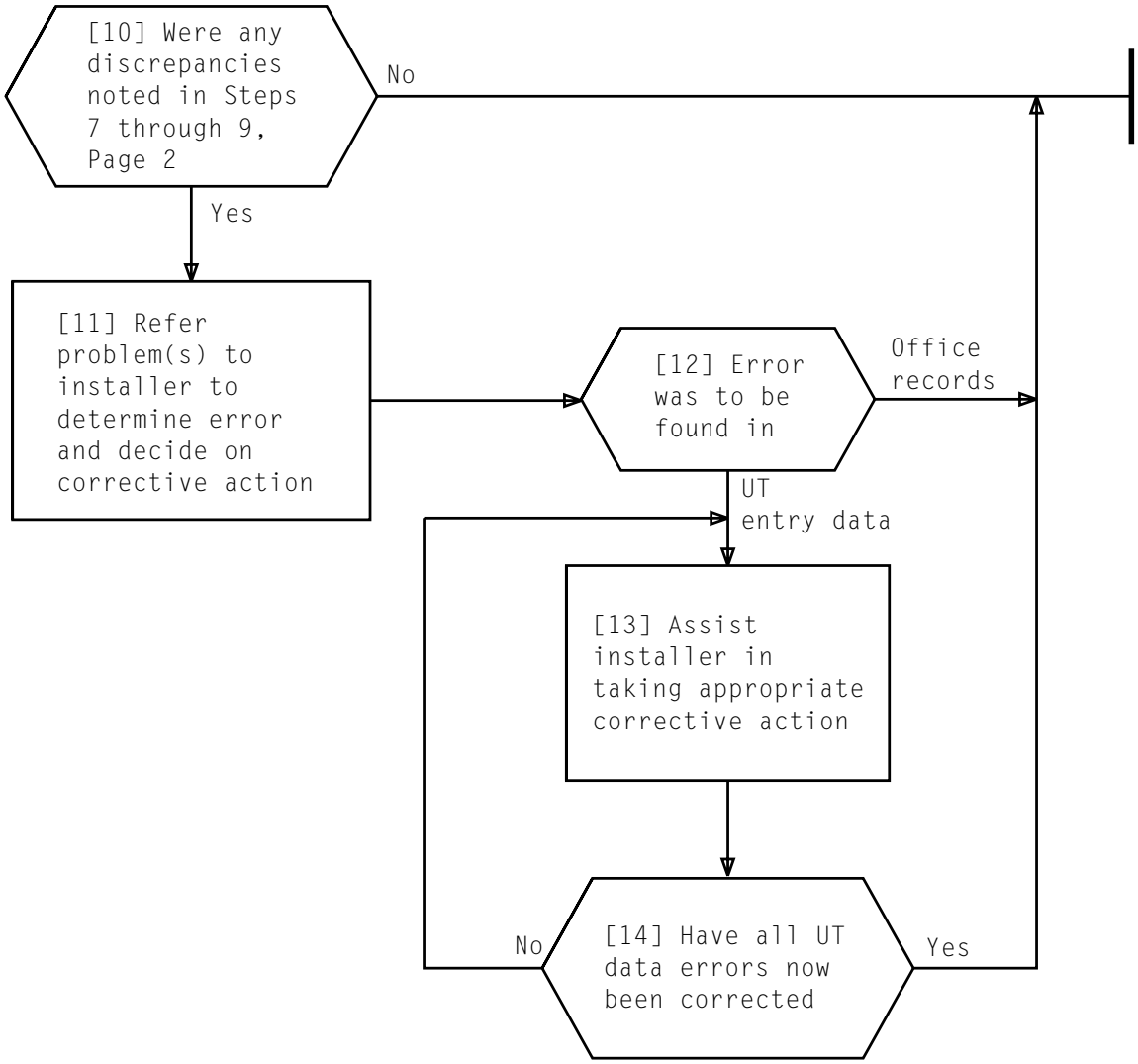

VERIFY PSEUDO SP2 UT TRANSLATOR

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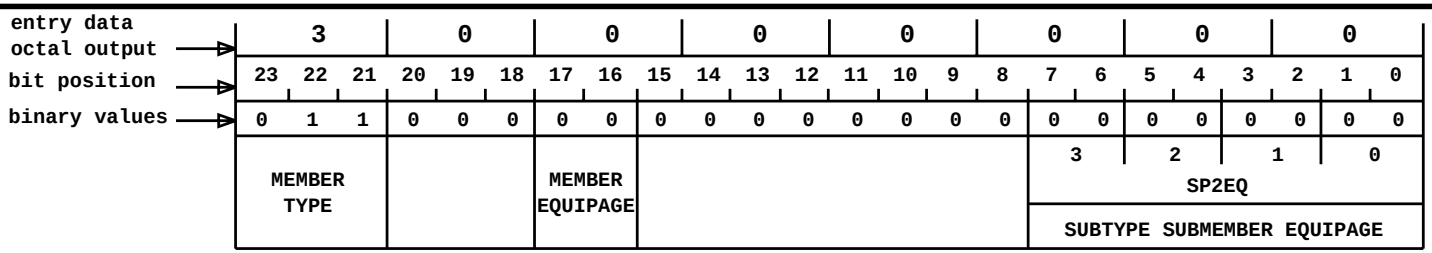
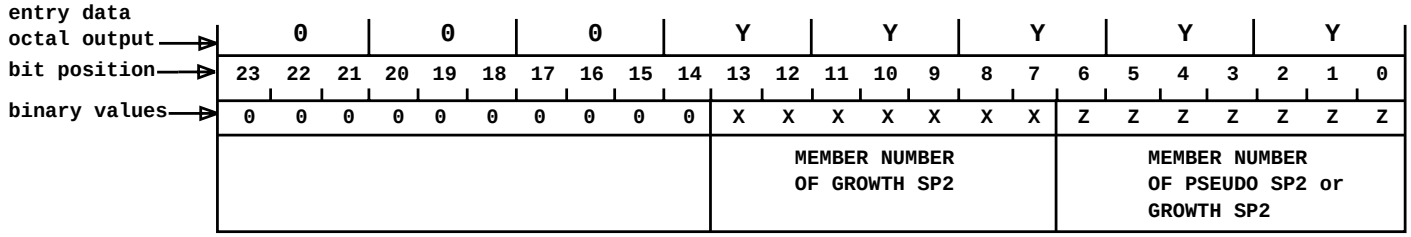
TABLE B

ENTRY WORD (OCTAL)	UT ENTRY DATA AND WORD CONFIGURATION

0



12



X...X = Member number of this growth SP2

Y = Variable octal numbers

Z...Z = Member number of next PSEUDO SP2 in circular link list or
Member number of this growth SP2

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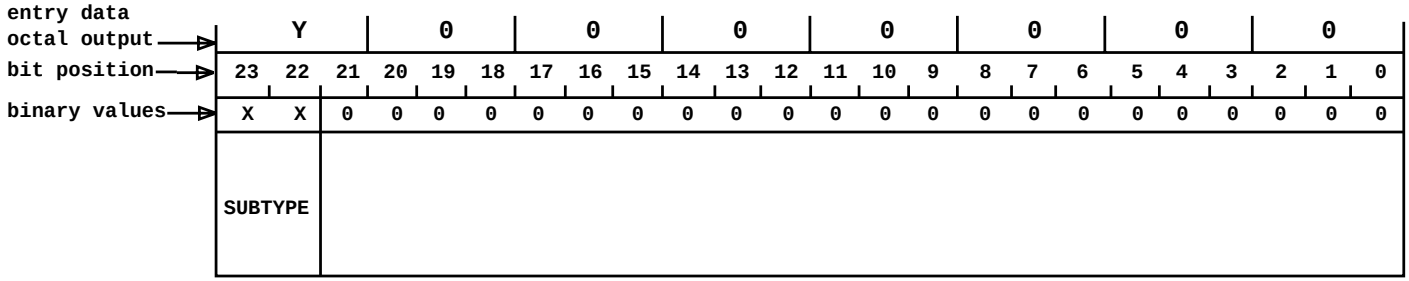
TABLE B (Contd)

ENTRY WORD (OCTAL)	UT ENTRY DATA AND WORD CONFIGURATION
13	

XX = 01 for associated CCIS type DT links 4 thru 7
10 for associated CCIS type DT links 8 thru 11
11 for associated CCIS type DT links 12 thru 15

Y = Resulting octal digit determined by subtype (XX) values and bit 21

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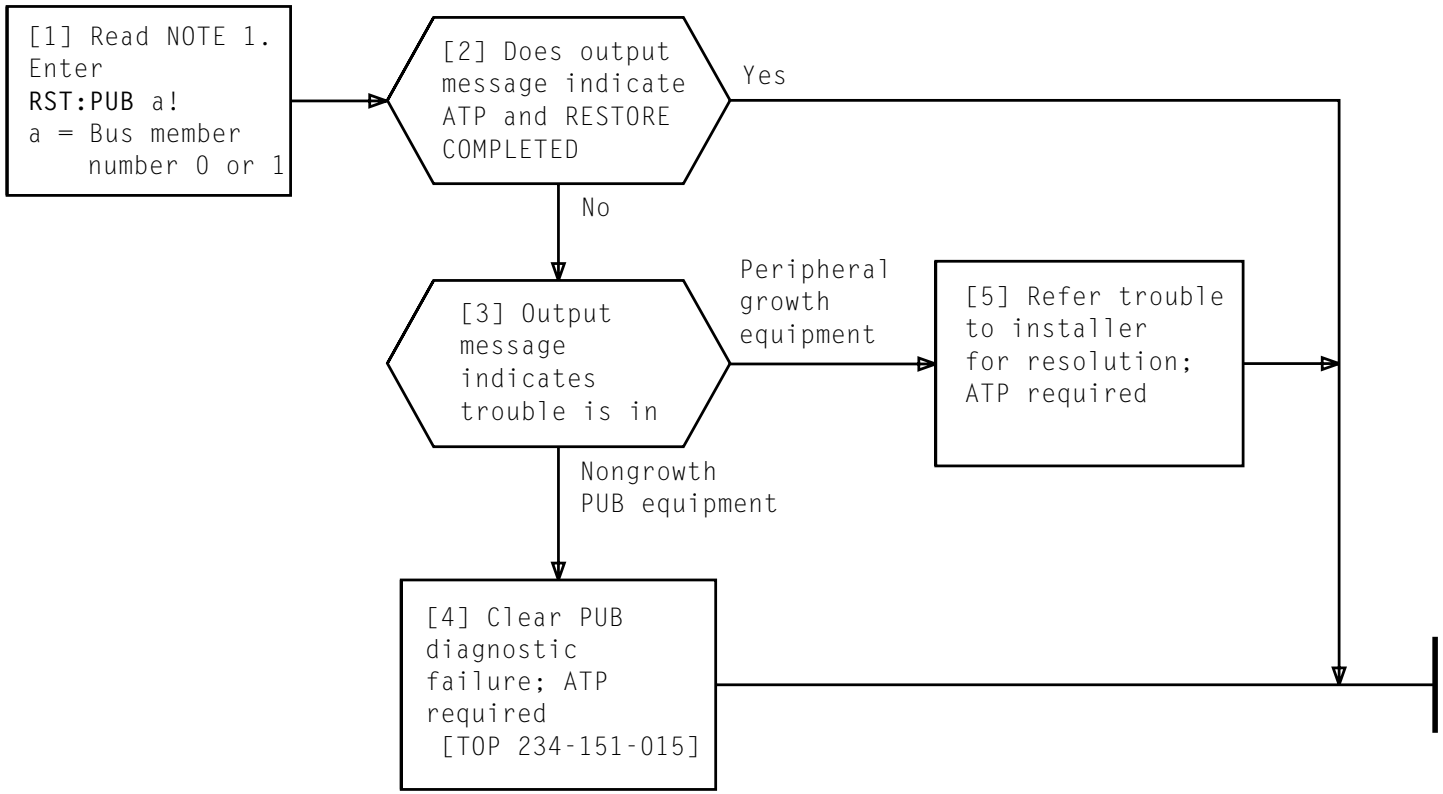

NOTE 1
Restore message will cause PUB diagnostic to be run. PUB will be restored if ATP

RESTORE PERIPHERAL UNIT BUS TO SERVICE

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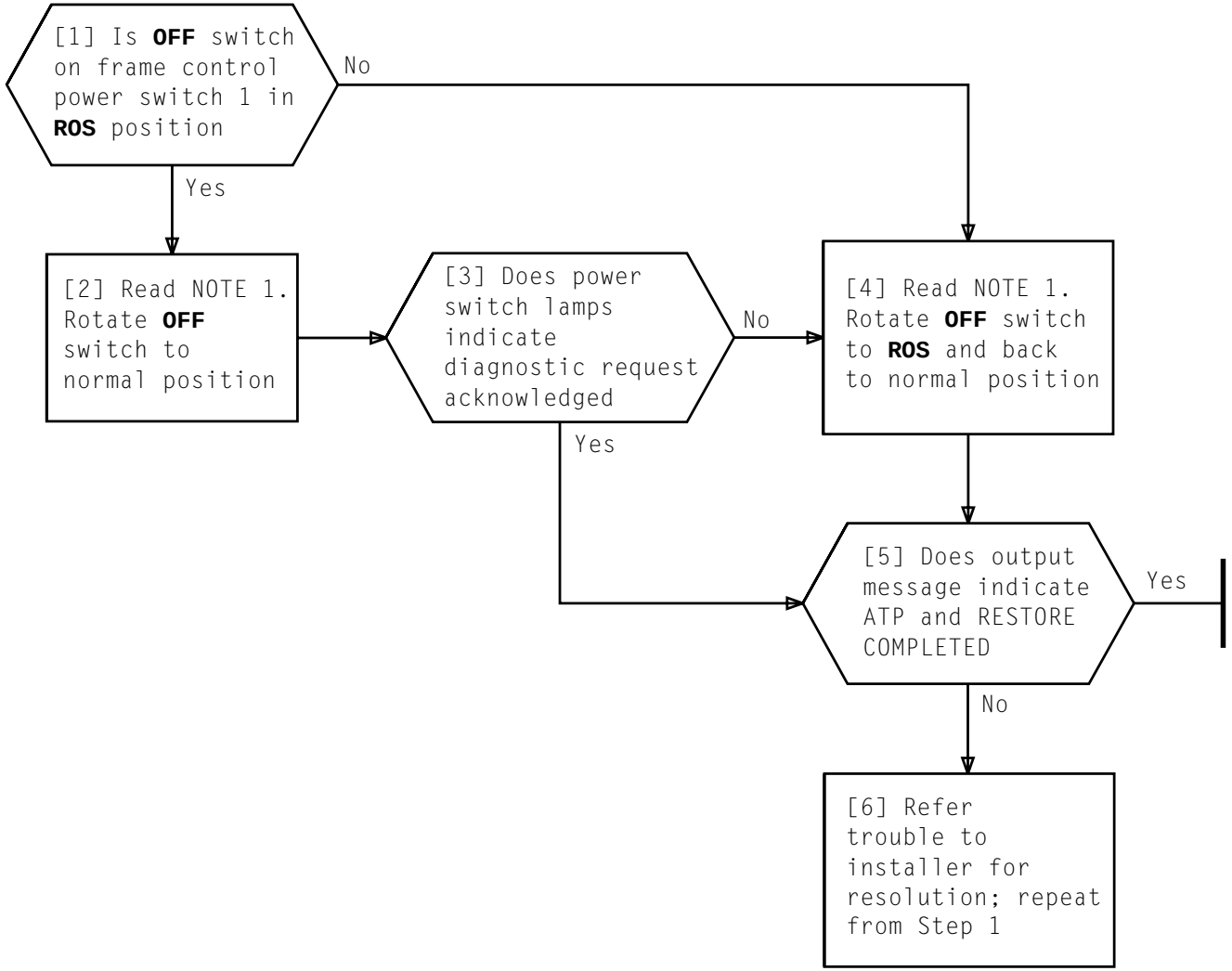
SUMMARY

Frame controller 1 power switch is restored to normal. If controller 1 diagnostics are ATP, controller is restored and initialized.



NOTE 1

Operation of **OFF** switch should cause diagnostic to be run. Controller will be restored and initialized if ATP

RESTORE AND INITIALIZE CONTROLLER 1

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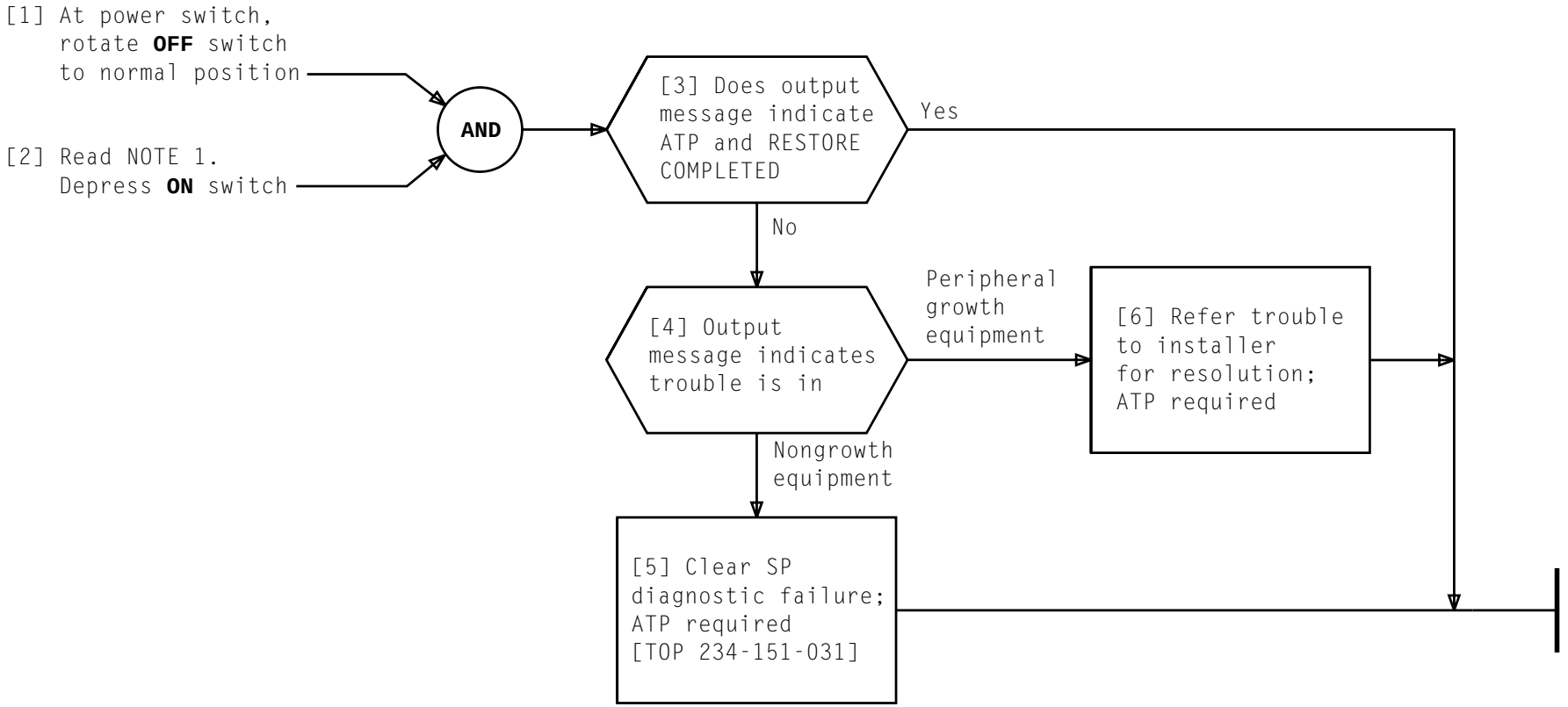

NOTE 1
Operation of **ON** switch will cause diagnostic to be run

RESTORE FRAME POWER WITH POWER SWITCH

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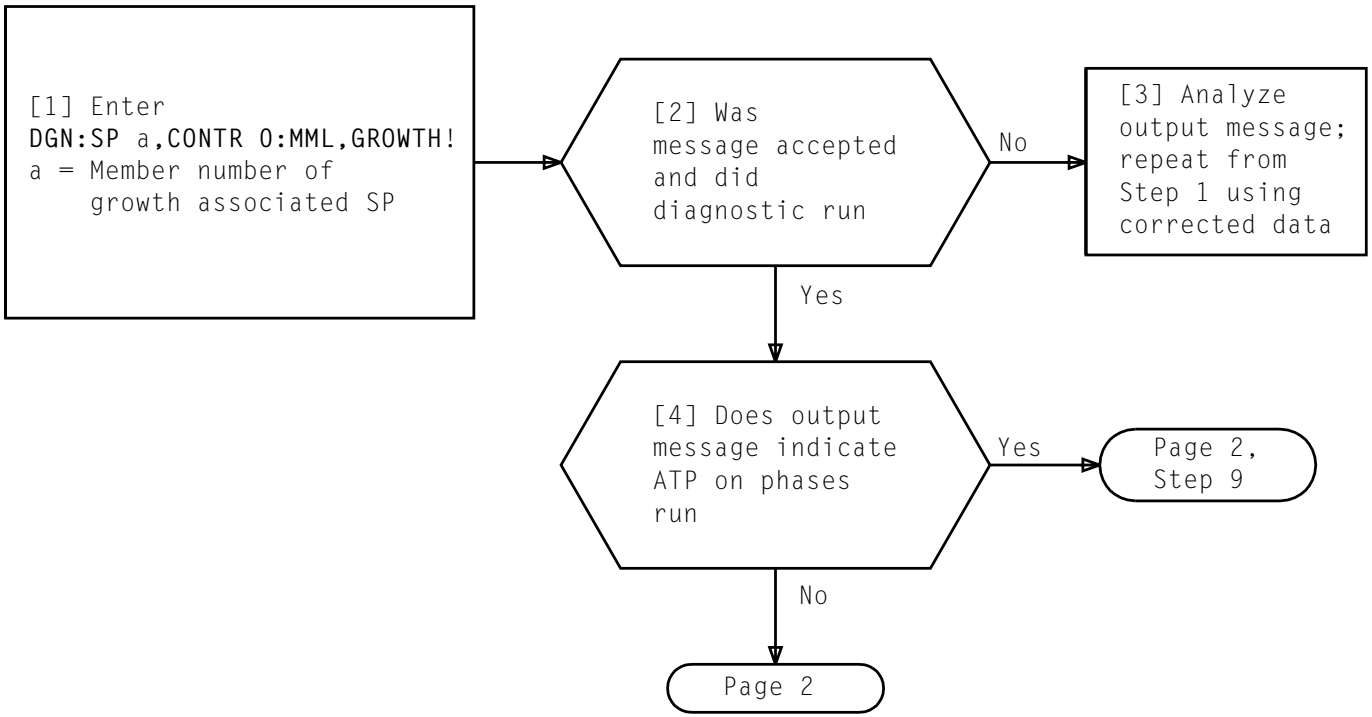
SUMMARY
Diagnose SP frame controllers 0 and 1 and matrix, specifying GROWTH. After ATP, restore frame to service.



DIAGNOSE AND RESTORE OPERATIONAL SP FRAME CONTROLLERS AND GROWTH MATRIX EQUIPMENT

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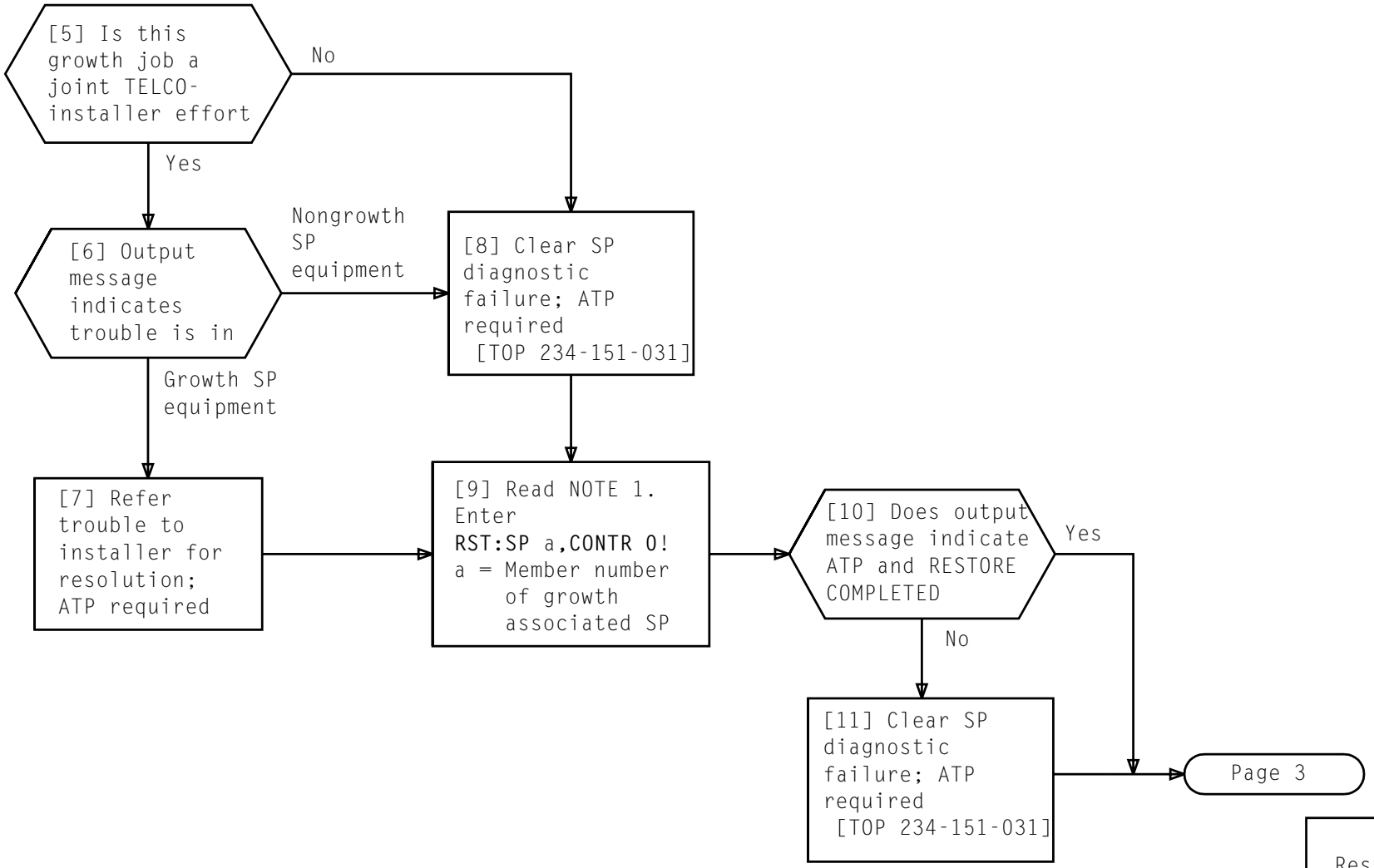

NOTE 1
Restore input message will cause diagnostic to be run and controller to be restored if ATP

DIAGNOSE AND RESTORE OPERATIONAL SP FRAME CONTROLLERS AND GROWTH MATRIX EQUIPMENT

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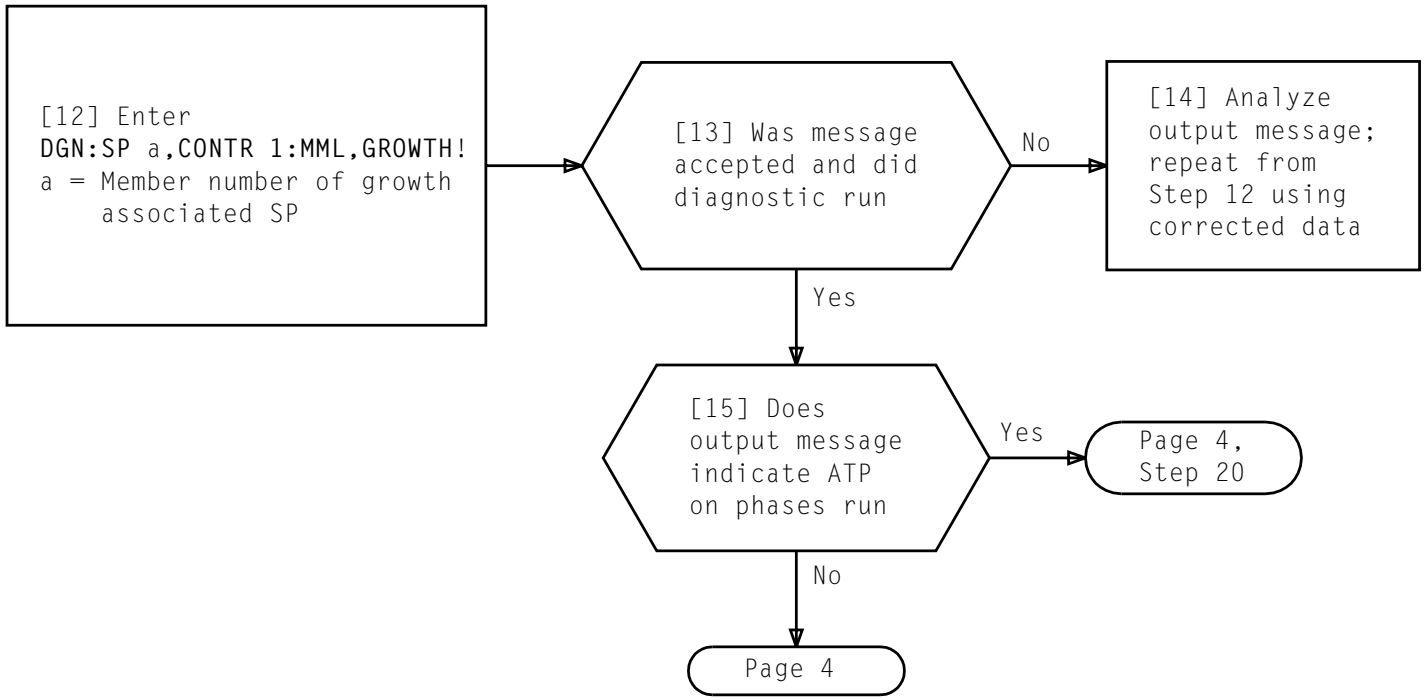

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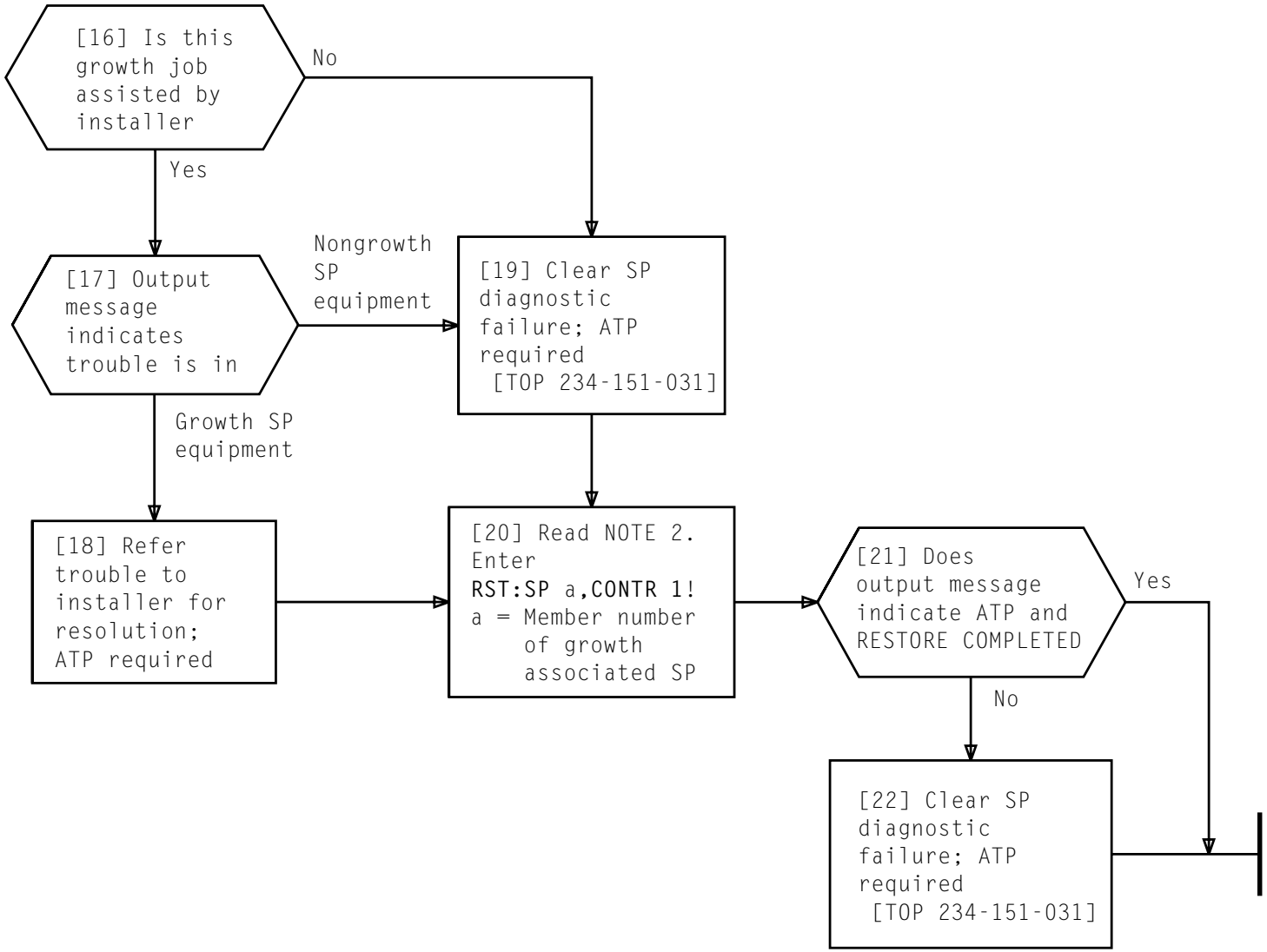

NOTE 2
Restore input message will cause diagnostic to be run and controller to be restored if ATP

DIAGNOSE AND RESTORE OPERATIONAL SP FRAME CONTROLLERS AND GROWTH MATRIX EQUIPMENT

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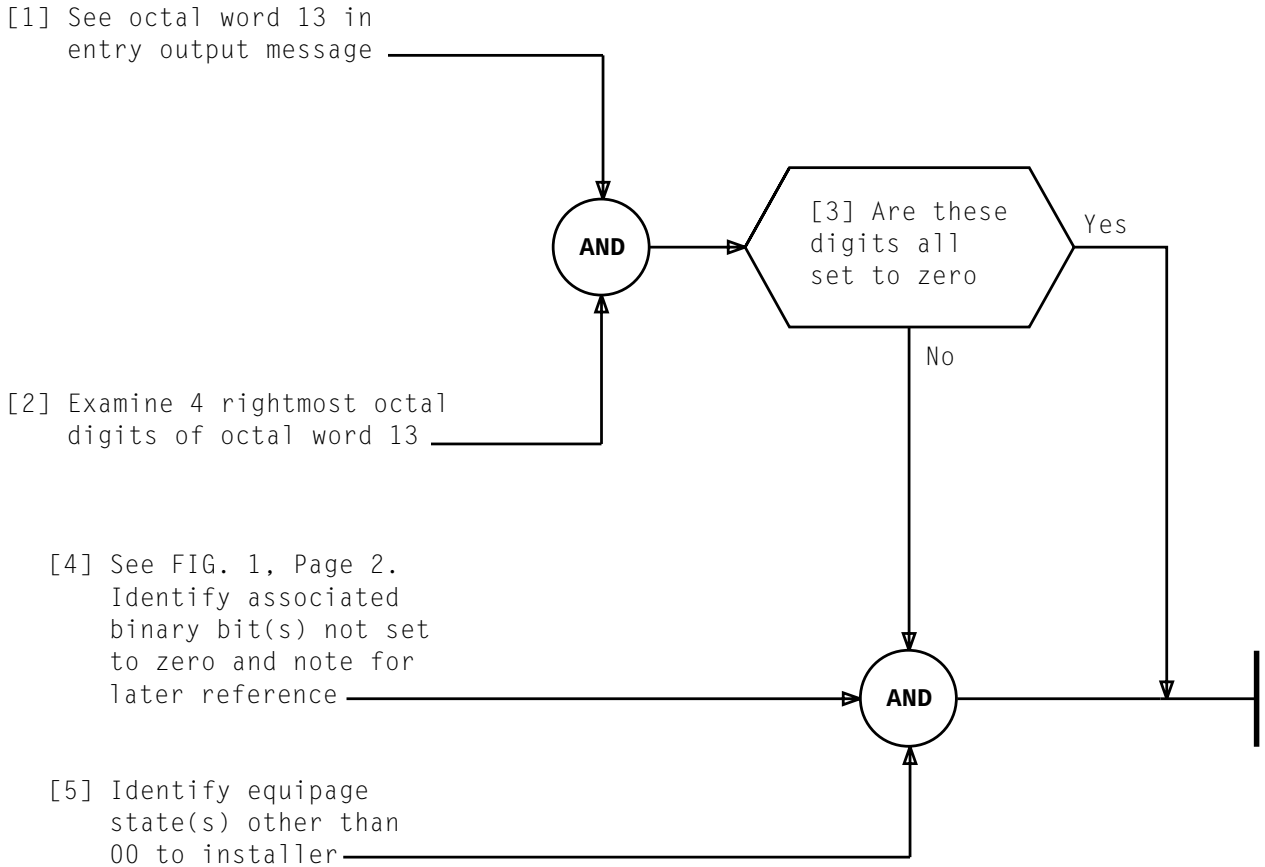

VERIFY UNEQUIPPED STATUS OF GROWTH SUPPLEMENTARY MATRIX EQUIPAGE

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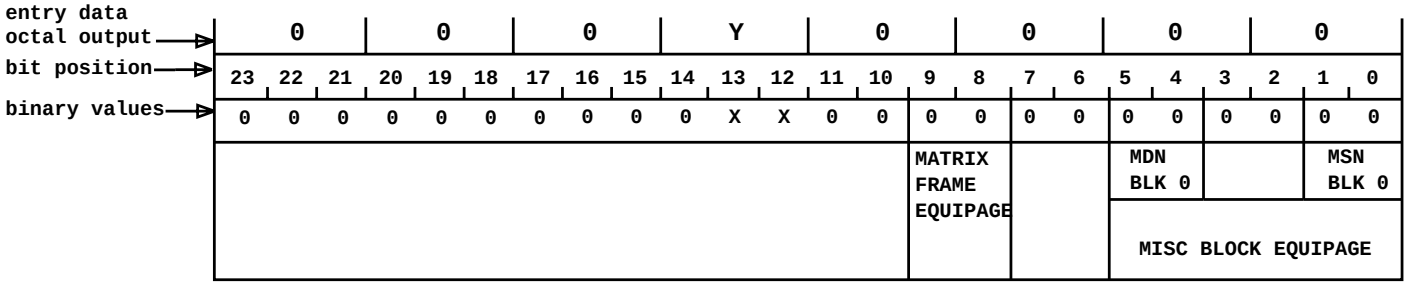

FIG. 1 — Entry Word 13 Layout

VERIFY UNEQUIPPED STATUS OF GROWTH SUPPLEMENTARY MATRIX EQUIPAGE

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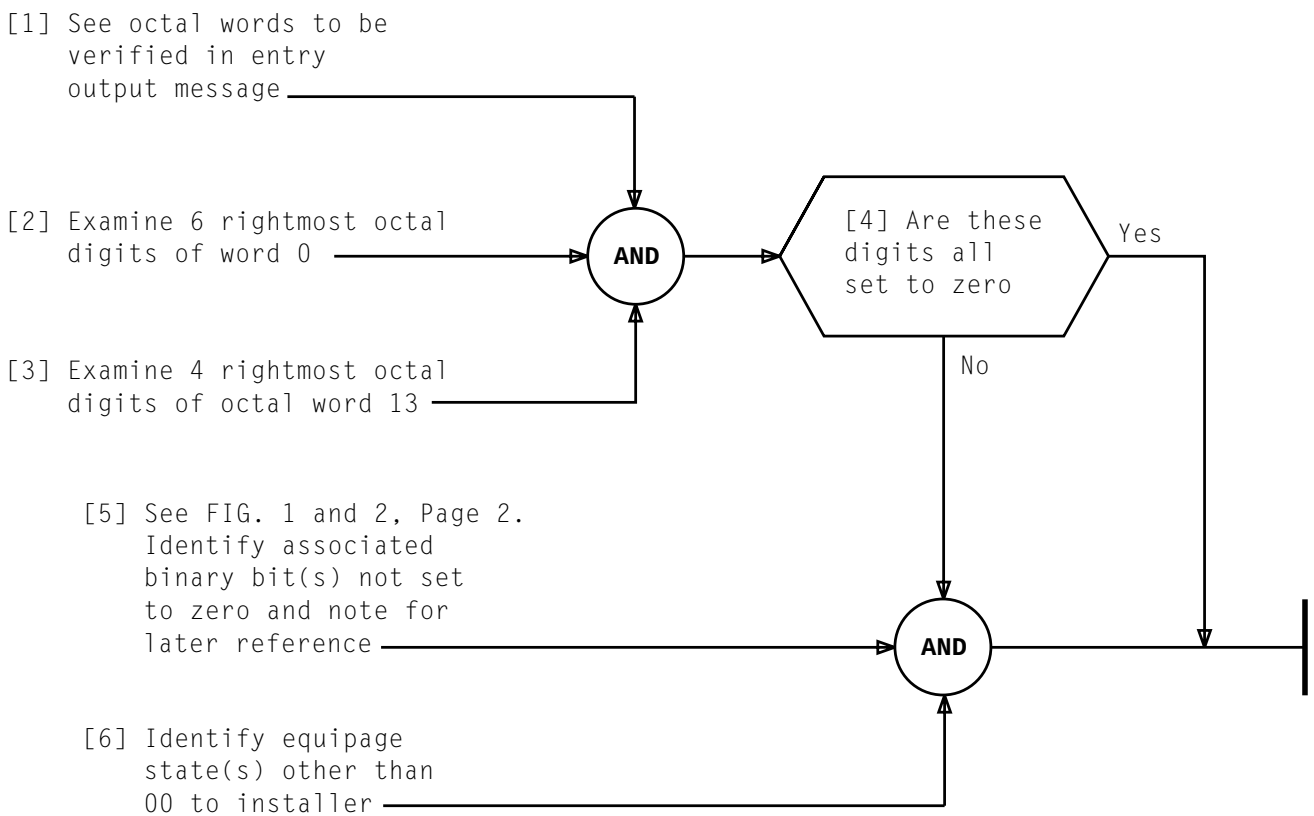
SUMMARY

Verify from entry output message, that SP 2 member and submember equipage bits are set to zero. Note any discrepancies for later reference.



VERIFY UNEQUIPPED STATUS OF GROWTH SP 2 MEMBER AND SUBMEMBERS

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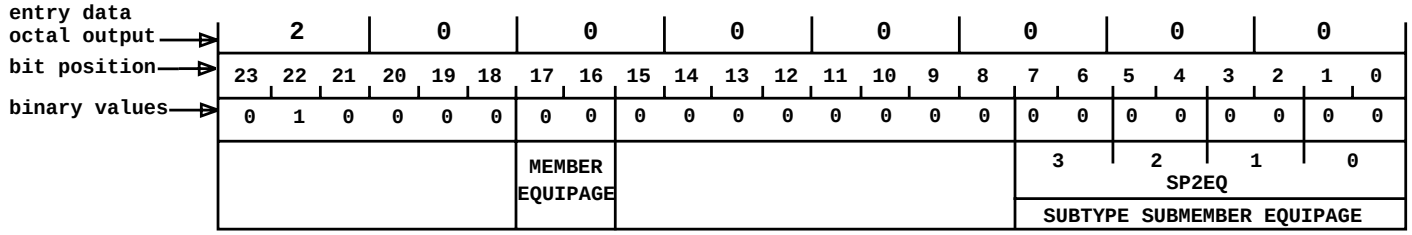

FIG. 1 — Entry Word 0 Layout

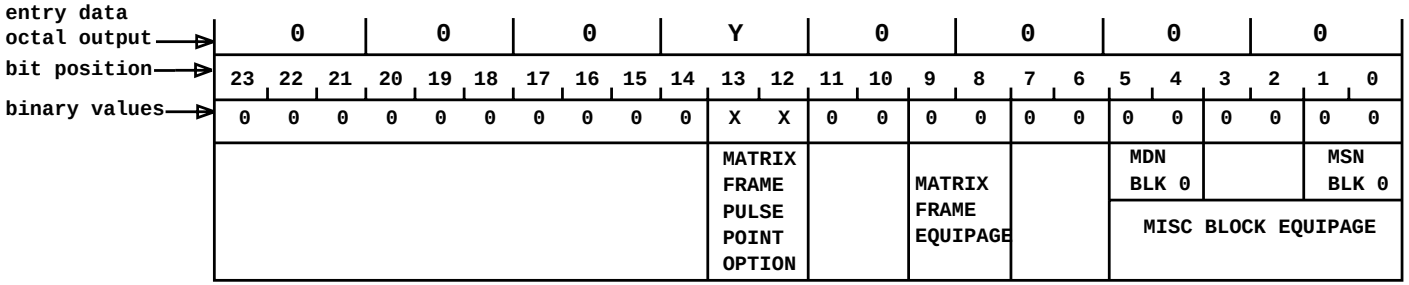

FIG. 2 — Entry Word 13 Layout

VERIFY UNEQUIPPED STATUS OF GROWTH SP 2 MEMBER AND SUBMEMBERS

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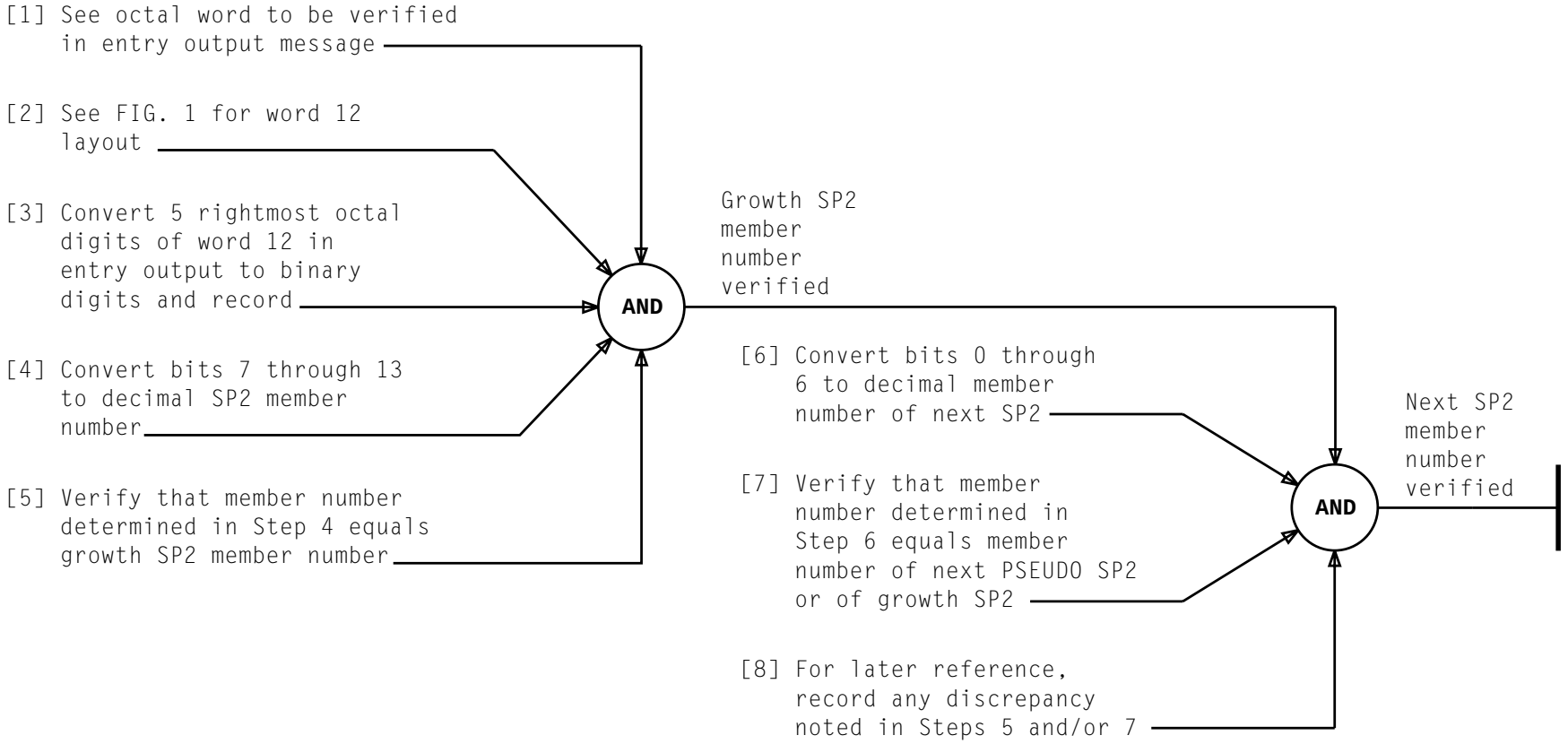

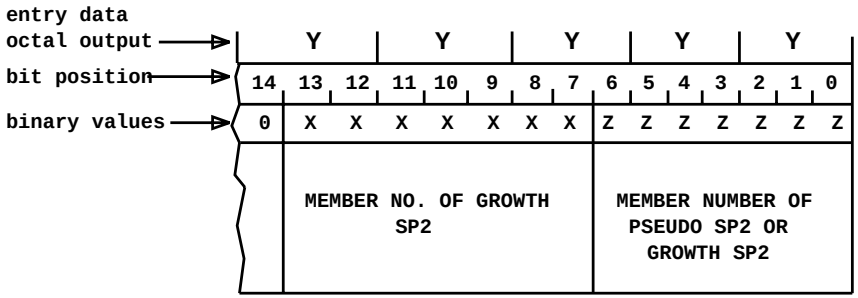

FIG. 1 — Entry Data Word 12 Layout (Partial)

VERIFY MEMBER NUMBER OF GROWTH SP2 AND NEXT SP2

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At Combined Distributor and Scanner Matrix (CD&SM) frame:

1. Using TABLE A, identify fuse assignments for CD&SM unit (K block)

TABLE A

FRAME	K BLOCK	FUSE															
LEFT OR RIGHT CD&SM FRAME	K BLOCK 0 OR 1	DESIG	C0A	C0C	C0E	C0G	C0J	C0L	C0N	C0R	D0A	D0C	D0E	D0G	D0J	D0L	D0N	D0R
		LOC	007-14								007-34							
		DESIG	C1A	C1C	C1E	C1G	C1J	C1L	C1N	C1R	D1A	D1C	D1E	D1G	D1J	D1L	D1N	D1R
		LOC	107-14								107-34							
	K BLOCK 2 OR 3	DESIG	C2A	C2C	C2E	C2G	C2J	C2L	C2N	C2R	D2A	D2C	D2E	D2G	D2J	D2L	D2N	D2R
		LOC	007-20								007-40							
		DESIG	C3A	C3C	C3E	C3G	C3J	C3L	C3N	C3R	D3A	D3C	D3E	D3G	D3J	D3L	D3N	D3R
		LOC	107-20								107-40							
	K BLOCK 4 OR 5	DESIG	C4A	C4C	C4E	C4G	C4J	C4L	C4N	C4R	D4A	D4C	D4E	D4G	D4J	D4L	D4N	D4R
		LOC	007-26								007-47							
		DESIG	C5A	C5C	C5E	C5G	C5J	C5L	C5N	C5R	D5A	D5C	D5E	D5G	D5J	D5L	D5N	D5R
		LOC	107-26								107-47							

IDENTIFY FUSE ASSIGNMENTS FOR CD&SM UNIT (K BLOCK) AT CD&SM FRAME

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SUMMARY

Using verify entry input message, call up growth associated SP 1 UT translator and verify that matrix data of the resulting TTY octal output data, when converted, agrees with office records. Refer to entry word explanations in TABLE B, Page 3 as required, for assistance in interpreting specific data fields. If it is determined that UT entry data are in error, word change(s) may be required.

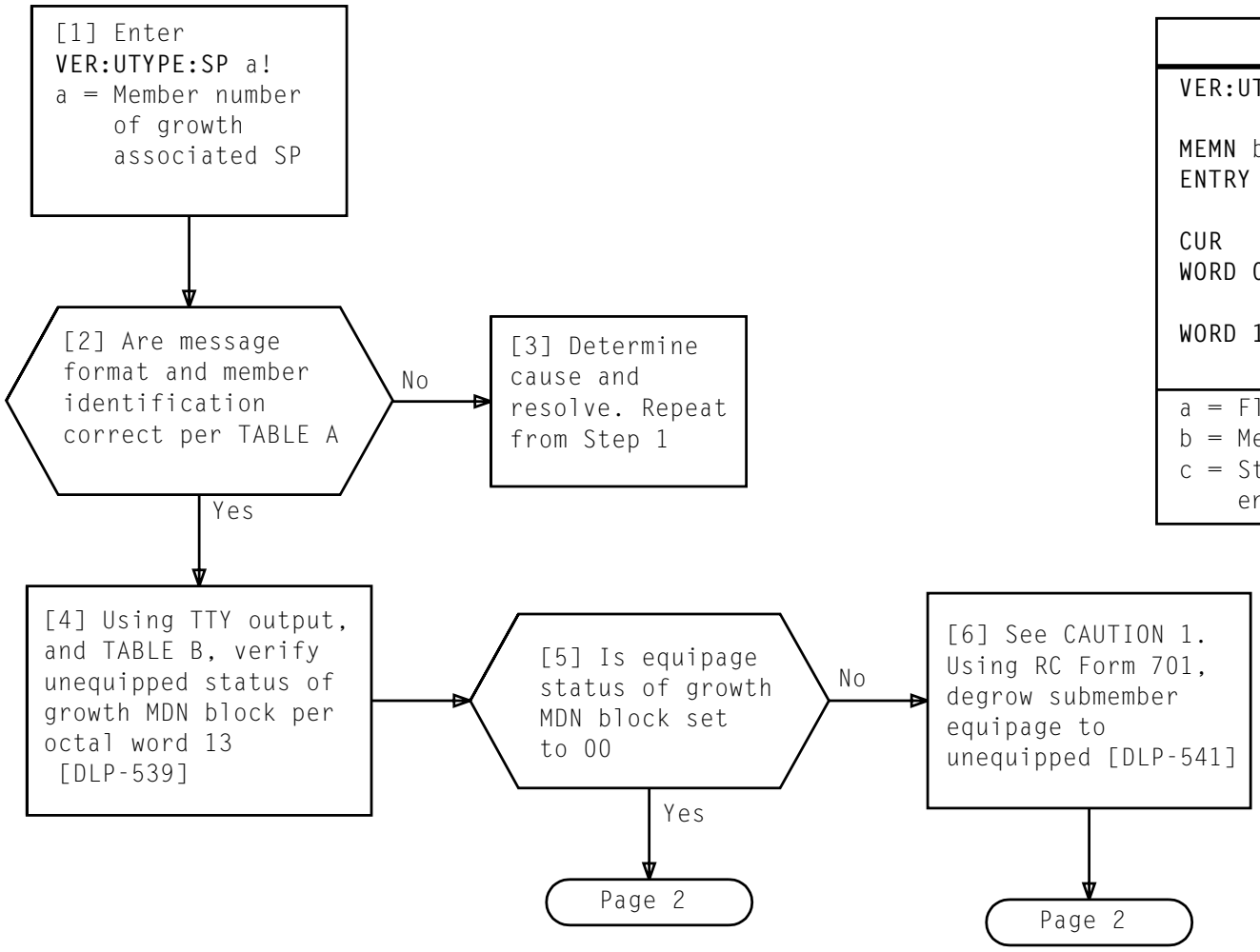

TABLE A

```
VER:UTMN;OPT( ),CUR:  FLN a,      UTYN SP,

MEMN b,        ME OPER,
ENTRY ADDRESS c,           ENTRY SIZE 16,

CUR
WORD 0  ____ ____ ____ ____
        ____ ____ ____ ____
WORD 10 ____ ____ ____ ____
        ____ ____ ____ ____
```

a = Floor location number
b = Member number of growth associated SP
c = Starting octal address for unit type entry

CAUTION 1
Depending on local procedures, supervisory or TELCO engineering approval must be obtained prior to performing any data changes.

VERIFY COMBINED SCAN AND SD AND PULSE POINT DATA OF SP 1 UT TRANSLATOR

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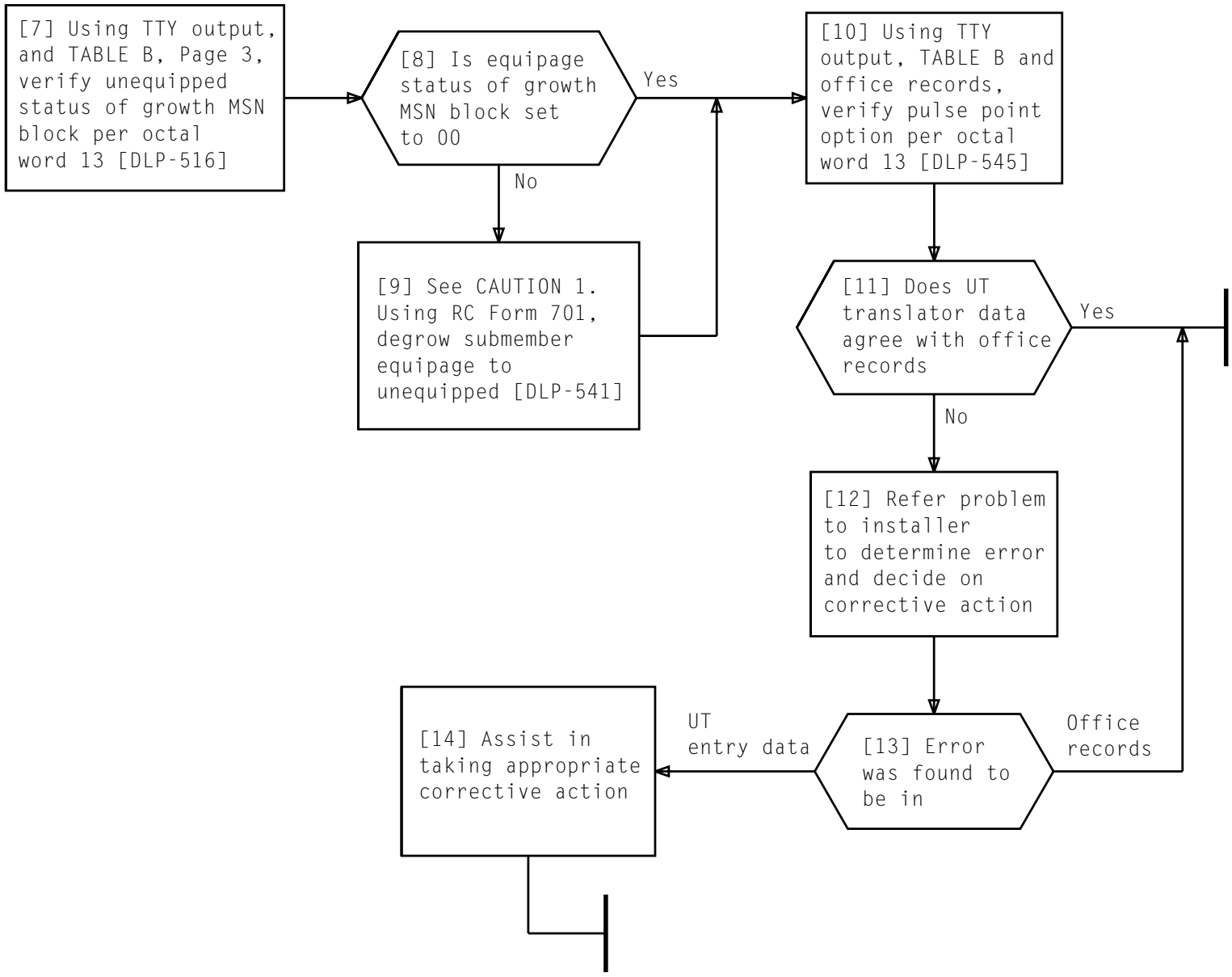

VERIFY COMBINED SCAN AND SD AND PULSE POINT DATA OF SP 1 UT TRANSLATOR

CAUTION 1
Depending on local procedures, supervisory or TELCO engineering approval must be obtained prior to performing any data changes.

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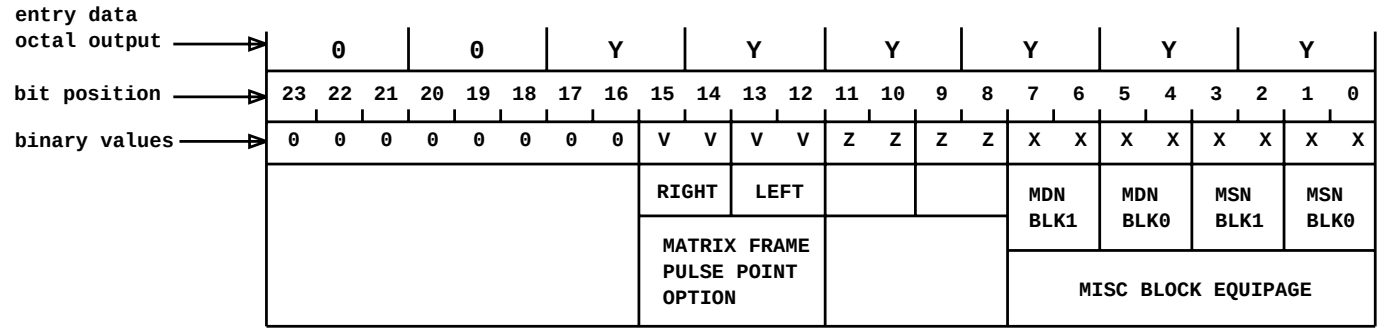
TABLE B

ENTRY WORD (OCTAL)	UT ENTRY DATA AND WORD CONFIGURATION
13	

VV = 2-digit code corresponding to pulse point option as reflected in office record drawing T-nnnn-Hn-3870 or equivalent
- = 00 = no pulse points
- = 01 = 256 pulse points
- = 10 = 512 pulse points
- = 11 = invalid

Y...Y = Variable octal numbers

XX = 2-digit code giving growth status of MSN/MDN blocks
- = 00 = unequipped
- = 11 = operational

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SUMMARY

Request RC Form 700. Fill in blanks on RC Form 700 to change submember equipage and enter message.

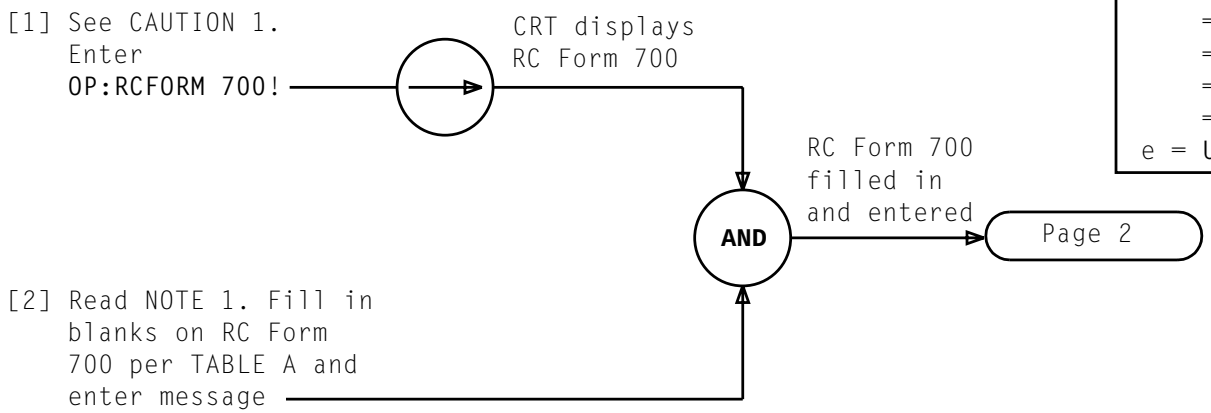
TABLE A

```
RC:UTYPE;CHG;OPT(EQP,GROW),TST:          UTYN a,

ORNU b,
                          OLD  NEW
MEMN c,          ME   (----, ----),
                          OLD  NEW
SUBMEM d,        SME (   e ,  e   ),

REMARKS----------------------------!
```

a = Unit type = **SP**
b = RC order number
c = Member number of growth associated SP
d = Submember name:
  = TSNBLK(0 to 3) (for Univ Scan Block 0-3)
  = TDNBLK(0 to 3) (for Univ SD Block 0-3)
  = MSNBLK(0 or 1) (for Misc Scan Block 0 or 1)
  = MDNBLK(0 or 1) (for Misc SD Block 0 or 1)
e = **UNEQ**, **GROW** or **GROW**, **SGRO** or **SGRO**, **OPER**



NOTE 1

RC order number should be recorded for later use

CAUTION 1

Calling up RC form will cause all CRT data to be cleared

RECENT CHANGE BUT DO NOT ACTIVATE SUBMEMBER EQUIPAGE

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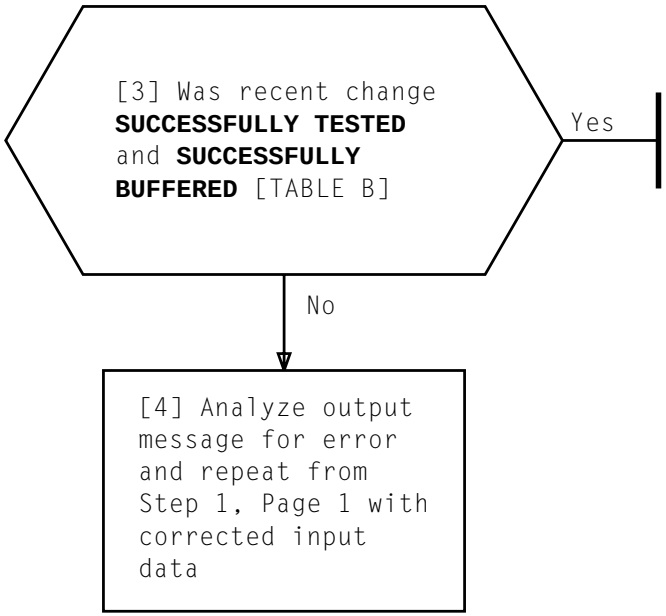

TABLE B

```
RC ORNU a, SUCCESSFULLY TESTED

RC ORNU a, SUCCESSFULLY BUFFERED

RC:UTYPE;CHG;OPT(EQP,GROW),BUF:          UTYN SP,

ORNU a,
                          OLD  NEW
MEMN b,          ME   (----, ----),
                          OLD  NEW
SUBMEM c,        SME (   d ,  d   ),

REMARKS-----------------------------!
```

a = RC order number
b = Member number of growth associated SP
c = Submember name:
    = TSNBLK(0 to 3) (for Univ Scan Block 0-3)
    = TDNBLK(0 to 3) (for Univ SD Block 0-3)
    = MSNBLK(0 or 1) (for Misc Scan Block 0 or 1)
    = MDNBLK(0 or 1) (for Misc SD Block 0 or 1)
d = Entered submember equipage

RECENT CHANGE BUT DO NOT ACTIVATE SUBMEMBER EQUIPAGE

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SUMMARY
Request RC Form 600. Fill in blanks on RC Form 600 using RC Form 700 order numbers previously recorded and advance recent change to test state.

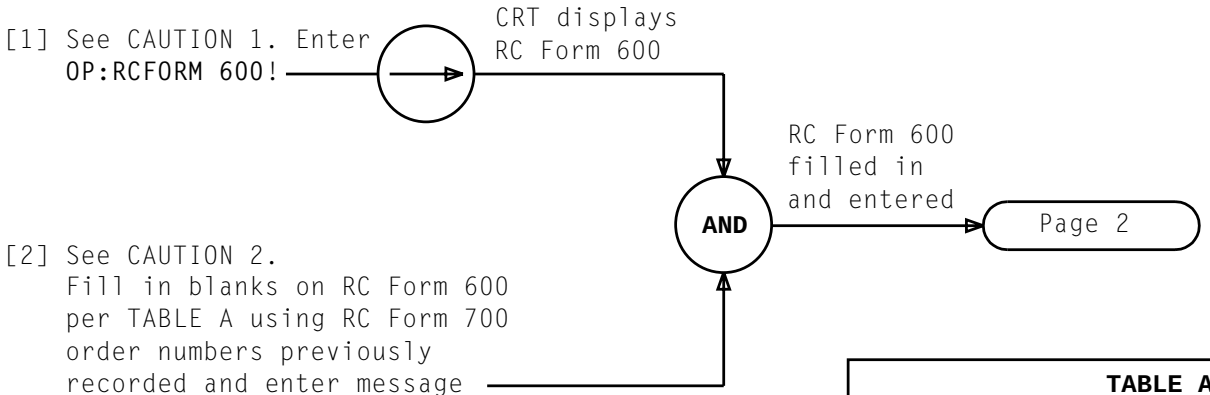

TABLE A

```
RC:MISC;NEW;OPT(MULTACT),a: ORNU b,
 ORNU     ORNU     ORNU     ORNU
  c        c        c        c
------, ------, ------, ------,
------, ------, ------, ------,
------, ------, ------, ------,
------, ------, ------, ------,
REMARKS-----------------------------!
```

a = BUF
b = Order number assigned for processing this RC Form 600
c = RC numbers to be activated

CAUTIONS

1. *Calling up RC form will cause all CRT data to be cleared*
2. *RC Form 600 is initially entered into system in buffered state and then advanced to test state to activate all RC order numbers listed on form.*

ACTIVATE SUBMEMBER EQUIPAGE USING RC FORM 600

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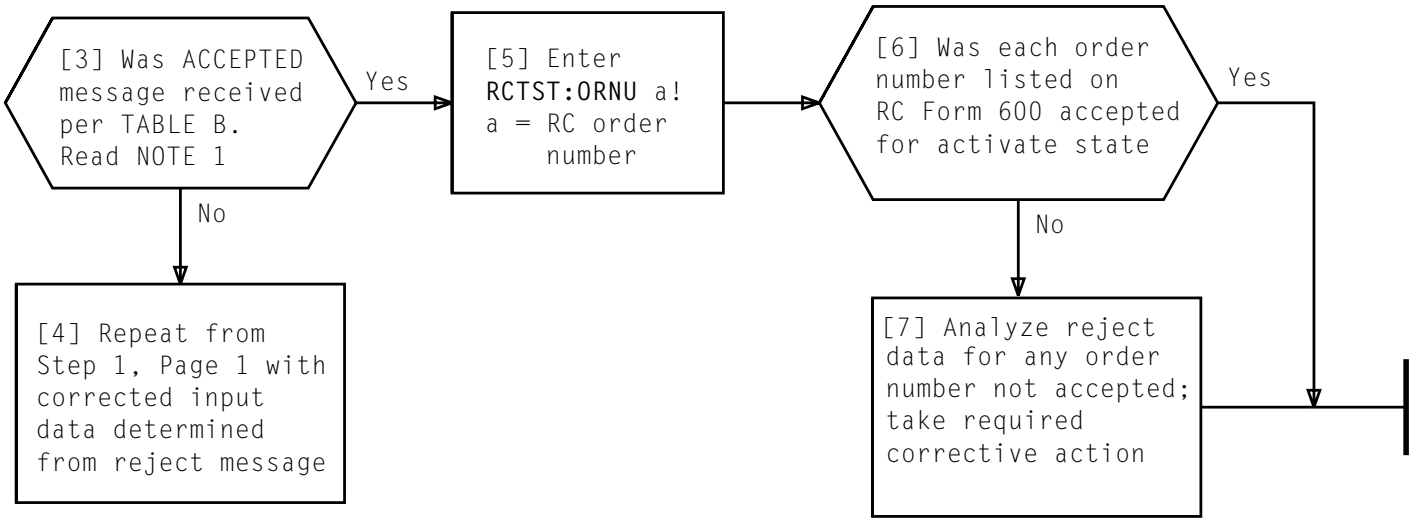

TABLE B
RC ORNU a ACCEPTED FOR BUF STATE
a = RC order number

NOTE 1
Acceptance of RC order number does not necessarily mean all input data was correct

ACTIVATE SUBMEMBER EQUIPAGE USING RC FORM 600

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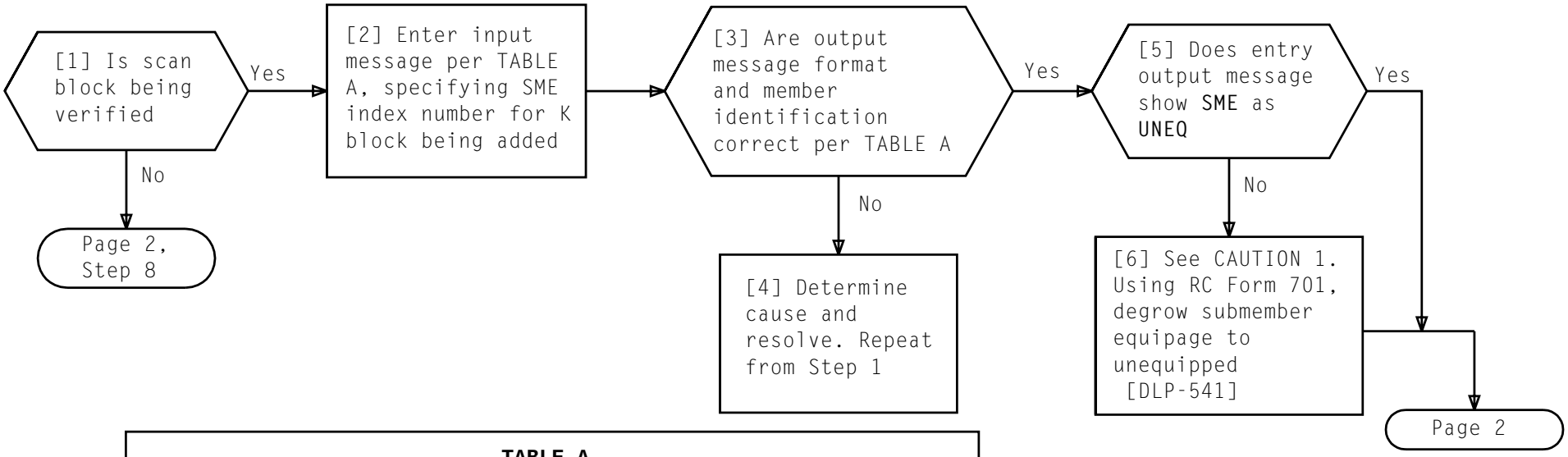

TABLE A

INPUT MESSAGE	OUTPUT MESSAGE
VER:UTYPE:SP b,SME c!	VER:UTMN;OPT(SME),CUR: FLN a, UTYN SP, MEMN b, ME OPER, SUBMEM c, SME UNEQ,

a = Floor location number
b = Member number of growth associated SP
c = SME index number =

K BLOCK NUMBER	SP TRANSLATION EQUIVALENT	INDEX NO.
K0	Universal Scan Block 0 (TSN 0)	16
K1	Universal Scan Block 1 (TSN 1)	17
K2	Universal Scan Block 2 (TSN 2)	18
K3	Universal Scan Block 3 (TSN 3)	19
K4	Misc Scan Block 0 (MSN 0)	24
K5	Misc Scan Block 1 (MSN 1)	25

CAUTION 1
Depending on local procedures, supervisory or TELCO engineering approval must be obtained prior to performing any data changes

Issue 6	DEC 1986
234-153-020	DLP
PAGE 1 of 2	515

VERIFY UNEQ STATUS OF SCAN AND SD EQUIPAGE

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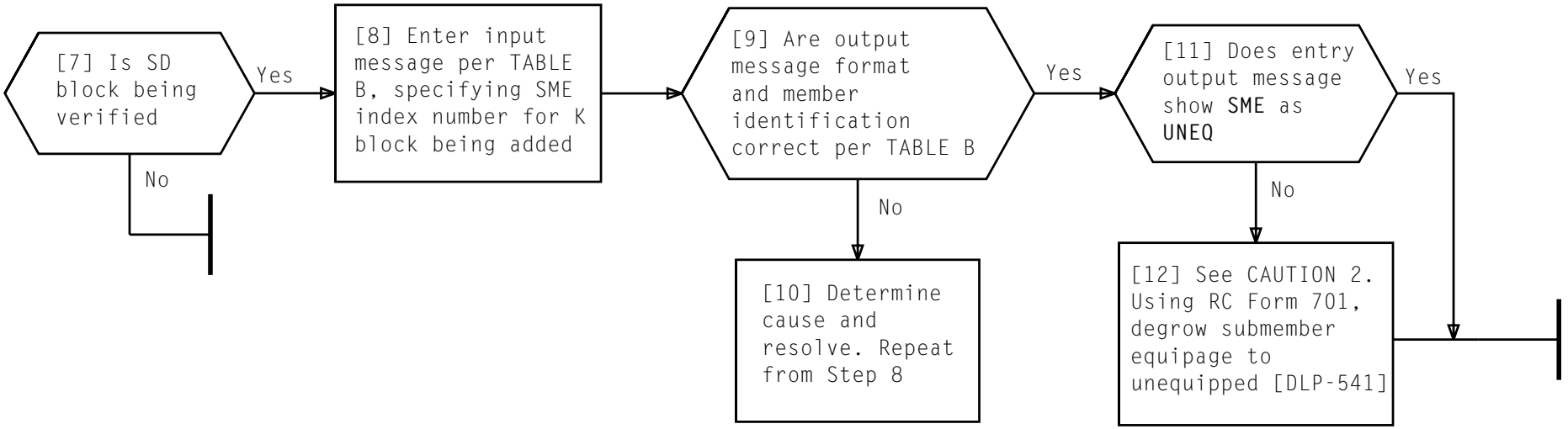

TABLE B

INPUT MESSAGE	OUTPUT MESSAGE
VER:UTYPE:SP b,SME c!	VER:UTMN;OPT(SME),CUR: FLN a, UTYN SP, MEMN b, ME OPER, SUBMEM c, SME UNEQ,

a = Floor location number
b = Member number of growth associated SP
c = SME index number =

K BLOCK NUMBER	SP TRANSLATION EQUIVALENT	INDEX NO.
K0	Universal SD Block 0 (TDN 0)	20
K1	Universal SD Block 1 (TDN 1)	21
K2	Universal SD Block 2 (TDN 2)	22
K3	Universal SD Block 3 (TDN 3)	23
K4	Misc SD Block 0 (MDN 0)	26
K5	Misc SD Block 1 (MDN 1)	27

CAUTION 2
Depending on local procedures, supervisory or TELCO engineering approval must be obtained prior to performing any data changes

VERIFY UNEQ STATUS OF SCAN AND SD EQUIPAGE

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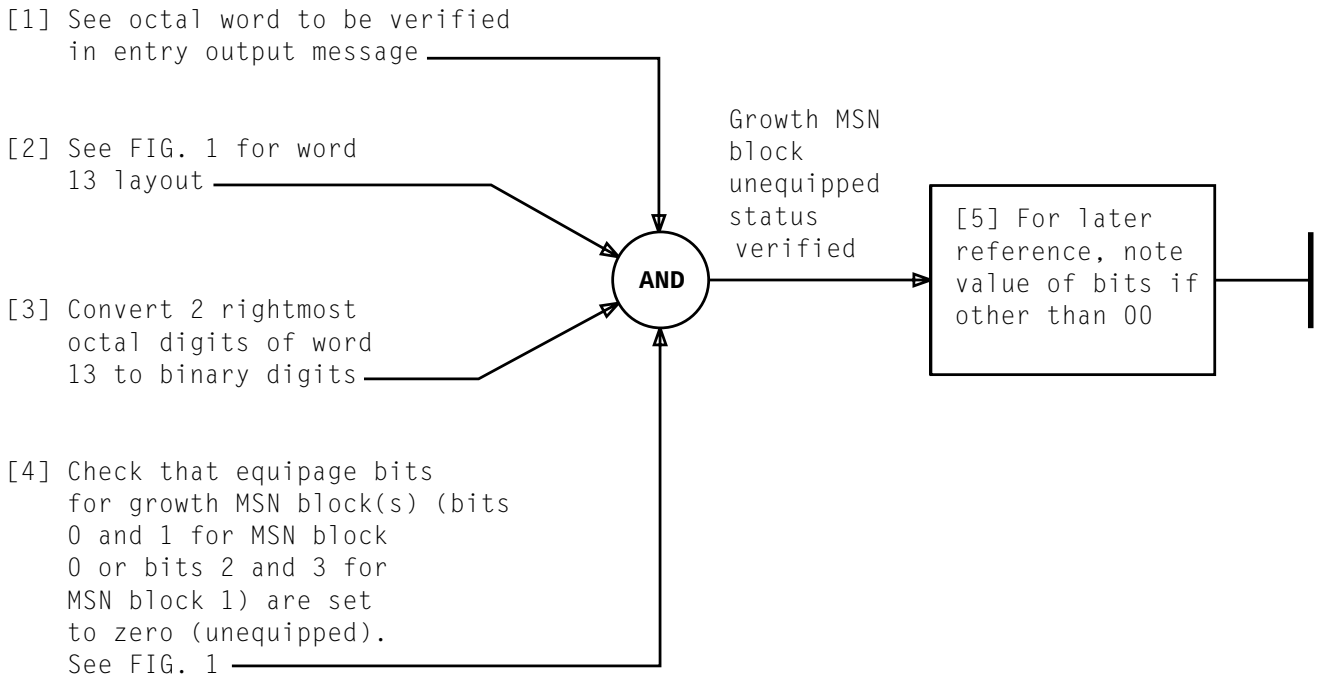

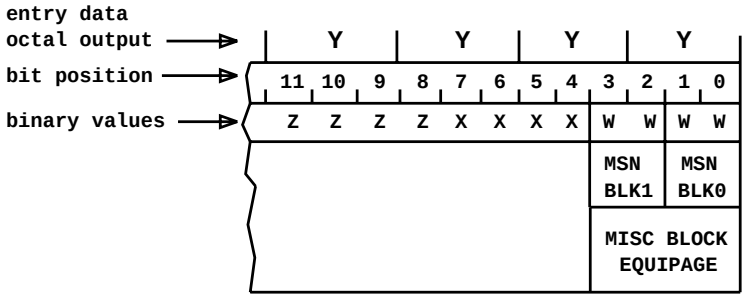

FIG. 1 — Entry Data Word 13 Layout (Partial)

VERIFY UNEQUIPPED STATUS OF GROWTH MSN BLOCK

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[1] Note contents of word 10 in entry output message containing version data to be verified

[2] For each controller and/or submember convert octal digits to version number per Fig. 1 and record

[3] Obtain from Installation LDI issue numbers for growth associated SP1 controllers and/or submembers

AND

Page 2

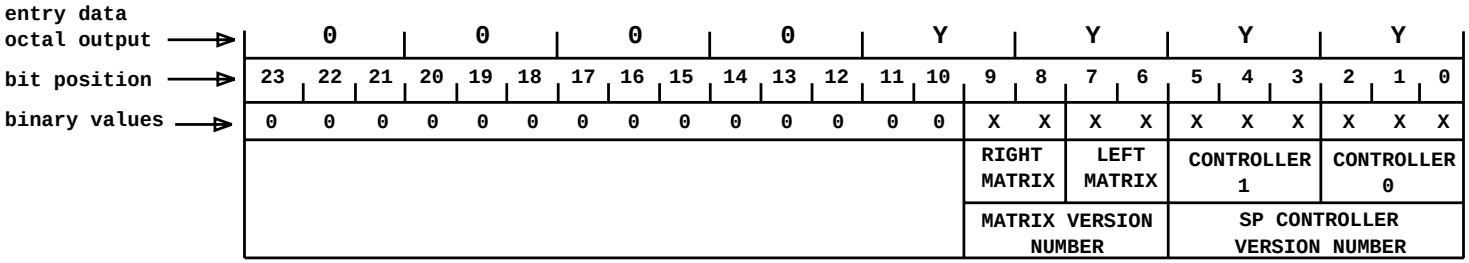

FIG. 1 — Word Layout For SP1 Controller and Submember version numbers

VERIFY SP1 CONTROLLER AND/OR SUBMEMBER VERSION NUMBERS

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[4] Using TABLE A, select version numbers associated with LDI issues in Step 3. See NOTE 1

[5] Compare version numbers in Step 4 with version numbers calculated in Step 2, Page 1

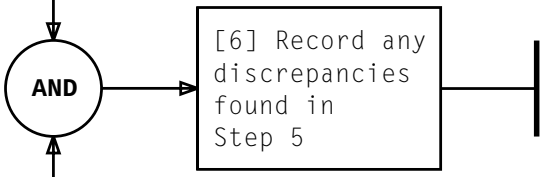

TABLE A

UNIT	SD NUMBER	MEMBER VERSION NUMBER				
		0	1	2	3	4
SP1 Controller	4A028-01	*1A	2D	2D	—	—
	4A013-01	1A	2D	4A	—	—
SP1 Controller (Combined Matrix)	4A028-02	1A	—	1A	—	—
	4A013-02	1A	—	7A	—	—
	4A091-01	1A	—	1A	—	—
SP1 Combined Matrix	4A093-01	1A	—	—	—	—
	4A094-01	1A	—	—	—	—
	4A095-01	1A	—	—	—	—

*LDI Issue Numbers

NOTE 1
Appropriate support organization may be consulted for current version information if not listed in TABLE A

VERIFY SP1 CONTROLLER AND/OR SUBMEMBER VERSION NUMBERS

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SUMMARY

Using verify entry input message, call up growth SP1 UT translator and verify that resulting TTY octal output data, when converted, agrees with office records. Refer to entry word explanations in TABLE B, Page 5 as required, for assistance in interpreting specific data fields. If it is determined that UT entry data are in error, word change(s) may be required.

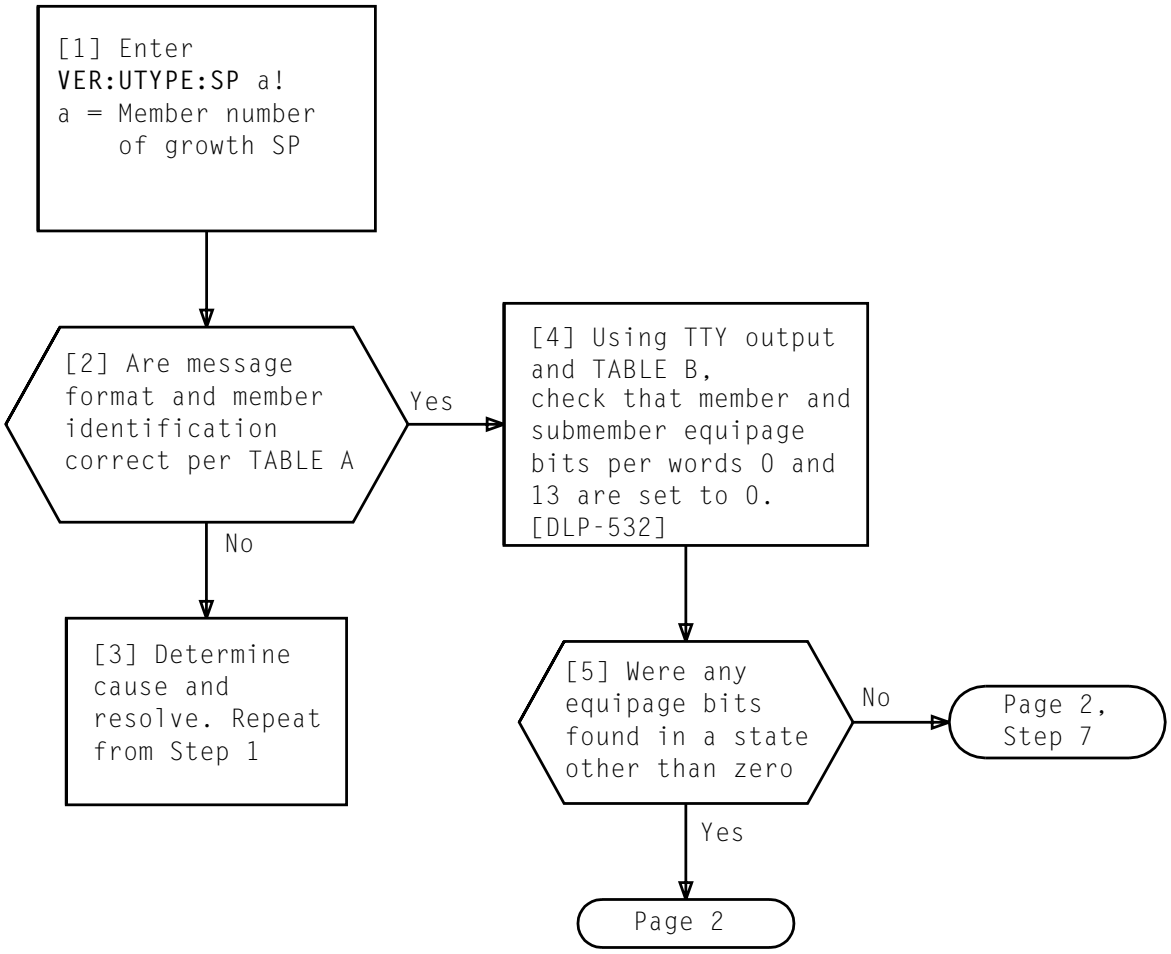

TABLE A

VER:UTMN;OPT( ),CUR: FLN a, UTYN SP,

MEMN b, ME UNEQ,
ENTRY ADDRESS c, ENTRY SIZE 16,

CUR				
WORD 0	_____	_____	_____	_____
	_____	_____	_____	_____
WORD 10	_____	_____	_____	_____
	_____	_____	_____	_____

a = Floor location number
b = Member number of growth SP
c = Starting octal address for unit type entry

VERIFY SP1 UT TRANSLATOR

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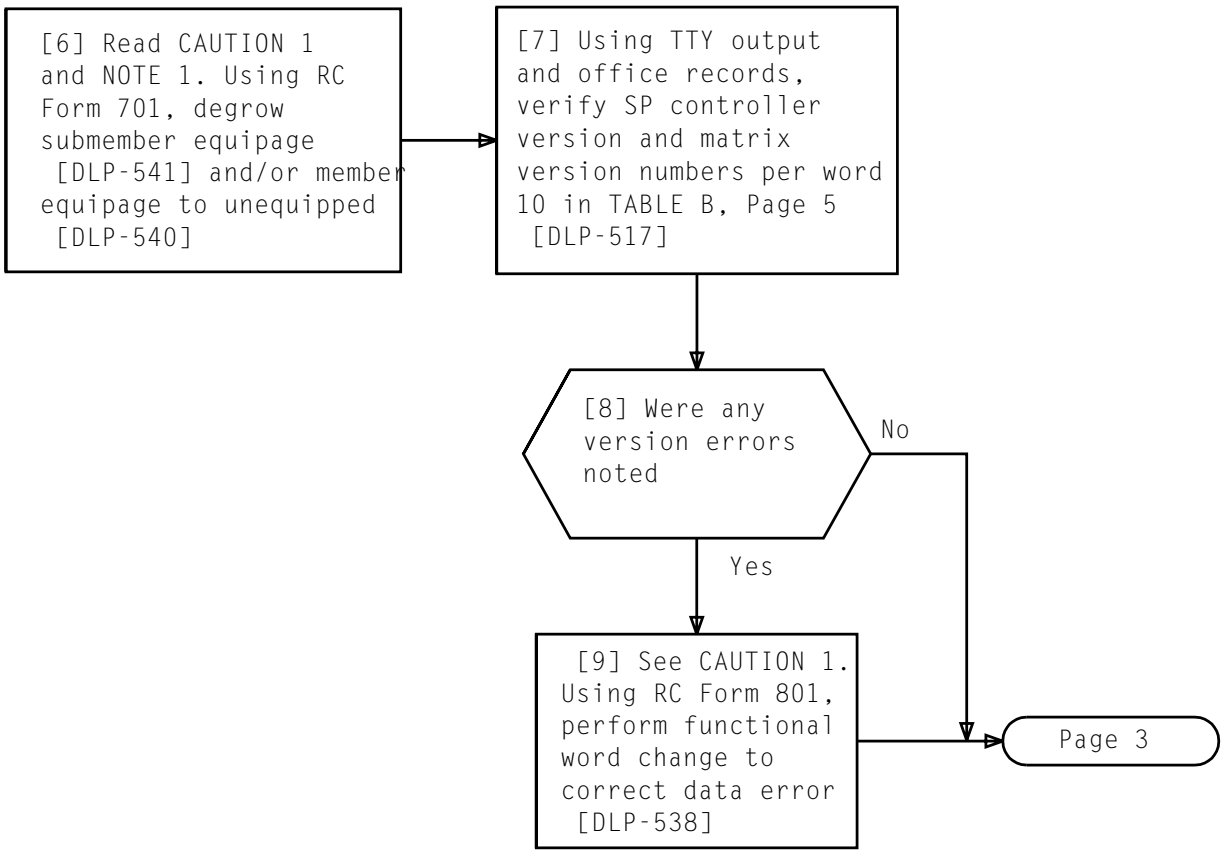

NOTE 1
Submember equipage must be degrown first, if required, followed by degrowth of member equipage, if required.

CAUTION 1
Depending on local procedures, supervisory or TELCO engineering approval must be obtained prior to performing any data change.

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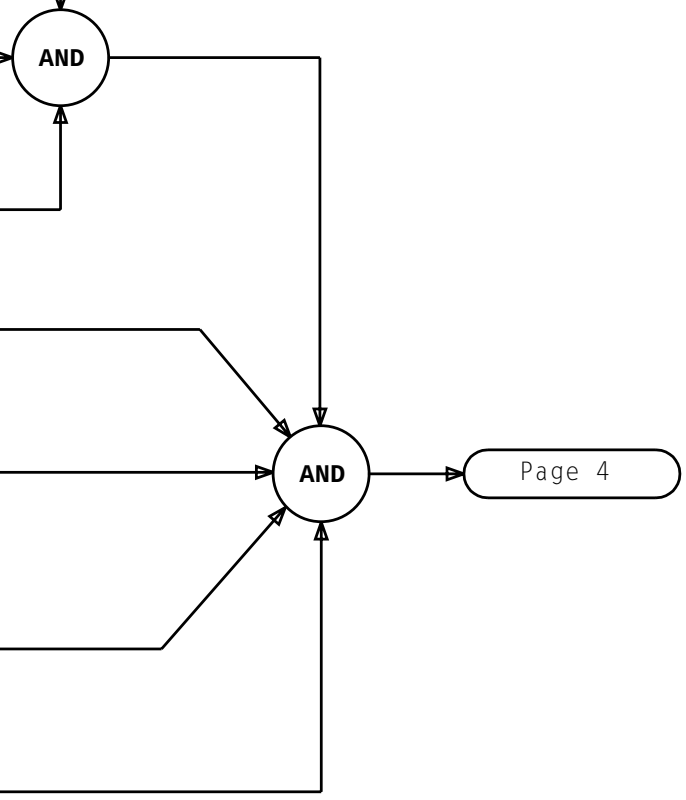
Using TTY output, TABLE B, Page 5 and office records:

[10] Verify miscellaneous member type data of word 0, bits 18 through 23

[11] Verify alarm grid, lineup, and frame assignment for growth frame per word 1 [DLP-533]

[12] Verify PUB branch assignment for growth SP per word 3 [DLP-535]



[13] Verify babbling bus changes per word 11

[14] Verify pulse point option and duplicate SP member number per words 13 and 14 [DLP-537]

[15] Verify SD and pulse point assignments for growth SP per words 2, 5, 6, 7, 16 and 17 [DLP-534]

[16] Verify scan point assignments for growth SP per words 3, 4, 14, and 15 [DLP-536]

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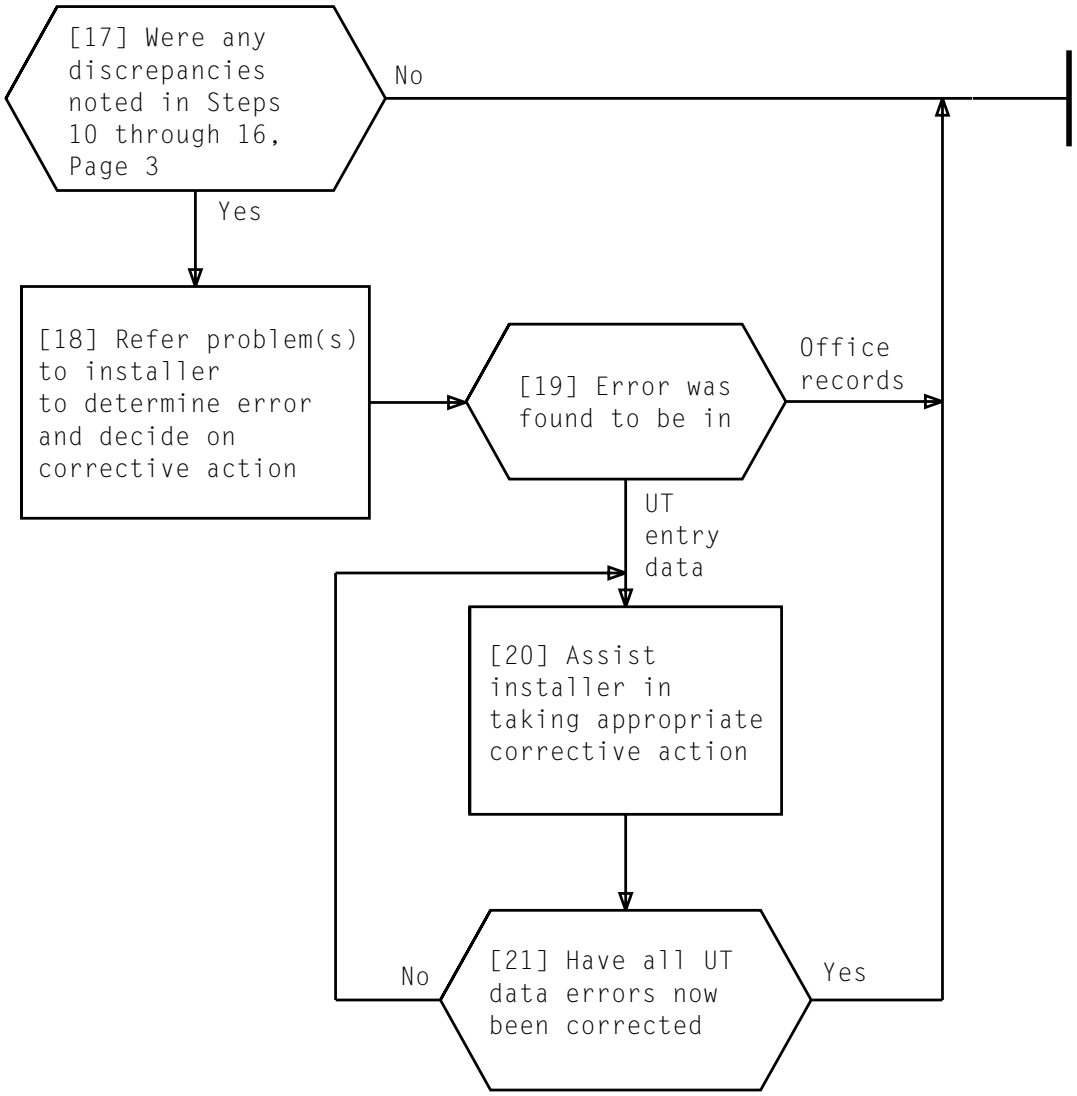

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TABLE B

ENTRY WORD (OCTAL) | **UT ENTRY DATA AND WORD CONFIGURATION**

0

entry data octal output → | 4 | Y | 0 | 0 | 0 | 0 | 0 | 0 |

bit position →	23 22 21	20 19 18	17 16	15 14	13 12	11 10	9 8	7 6	5 4	3 2	1 0
binary values →	1 0 0	W W W	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
	MEMBER TYPE	MEMBER TYPE HARDWARE GENERATION	MEMBER EQUIPAGE	TDN BLK 3	TDN BLK 2	TDN BLK 1	TDN BLK 0	TSN BLK 3	TSN BLK 2	TSN BLK 1	TSN BLK 0
				UNIV SD BLOCK EQUIPAGE				UNIV SCAN BLOCK EQUIPAGE			

W.W = Member Type Hardware Generation
000 = SP with MF Reception
001 = SP without MF Reception

Y = Variable octal number

1

entry data octal output → | Y | Y | Y | Y | Y | Y | Y | Y |

bit position →	23 22 21	20 19 18	17 16 15	14 13 12	11 10	9 8 7 6	5 4 3 2	1 0
binary values →	Z Z Z Z	X X X	X X X	X X X	X X	X X X X	X X X X	X X
	ASSIGNED ALARM GRID NUMBER	FRAME LINEUP NUMBER				FRAME NUMBER		

X...X = Converts to decimal frame info as reflected in office floor plan drawing

Y= Variable octal numbers

ZZZZ = Converts to decimal alarm grid number as reflected in office record drawings T-nnnn-Hn-400, 401, or 402 or equivalent

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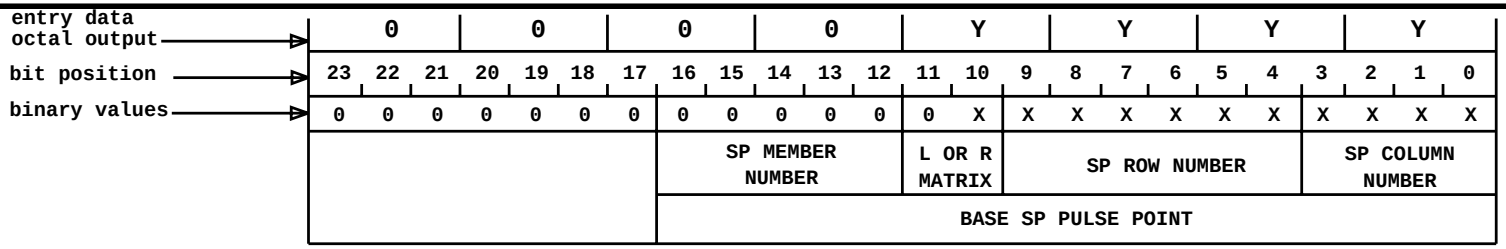
TABLE B (Contd)

ENTRY WORD (OCTAL) | **UT ENTRY DATA AND WORD CONFIGURATION**

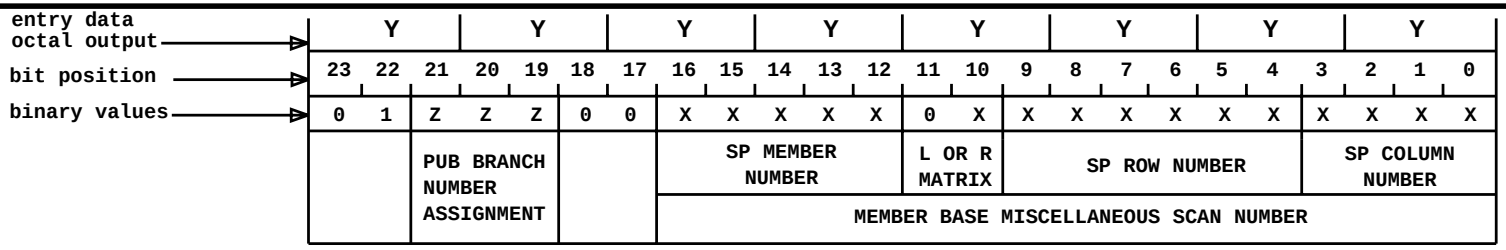
2



X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-462 or equivalent

Y = Variable octal numbers

3



X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-461 or equivalent

ZZZ = 3-digit code corresponding to lettered PUB branch as reflected in office record drawing T-nnnn-Hn-3840 or equivalent

= 000 - branch A&B
001 - branch C&D
010 - branch E&F
011 - branch G&H
100 - branch K&L
101 - branch M&R
110 - branch T&V
111 - branch W&X

Y = Variable octal numbers

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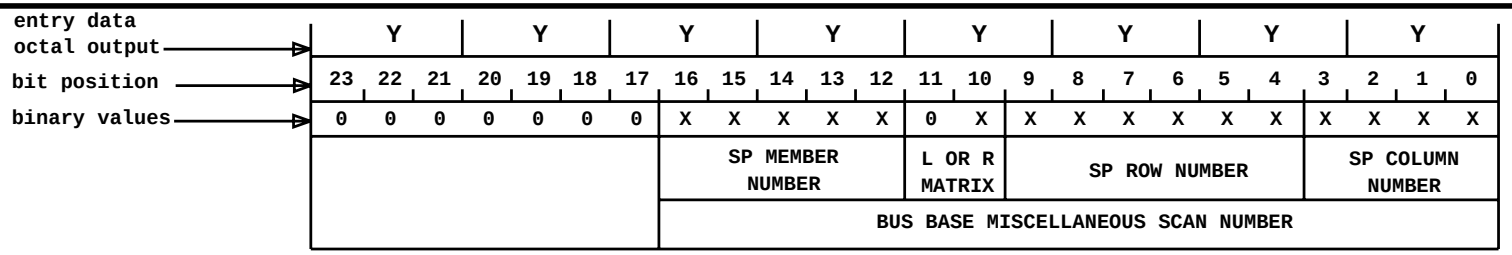
TABLE B (Contd)

ENTRY WORD (OCTAL)	UT ENTRY DATA AND WORD CONFIGURATION
4	

X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-461 or equivalent

Y = Variable octal numbers

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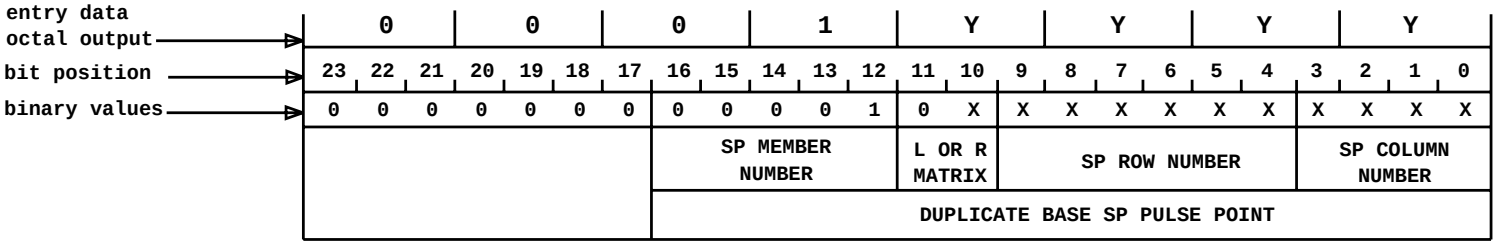
TABLE B (Contd)

ENTRY WORD (OCTAL)	UT ENTRY DATA AND WORD CONFIGURATION

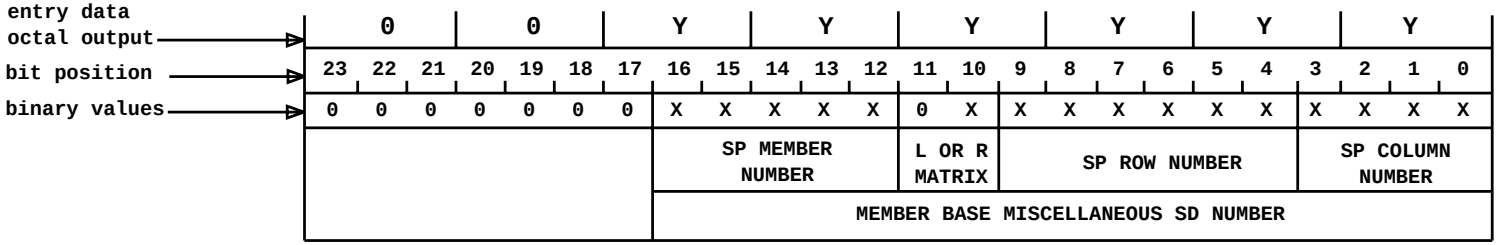
5



X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-462 or equivalent

Y = Variable octal numbers

6



X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-462 or equivalent

Y = Variable octal numbers

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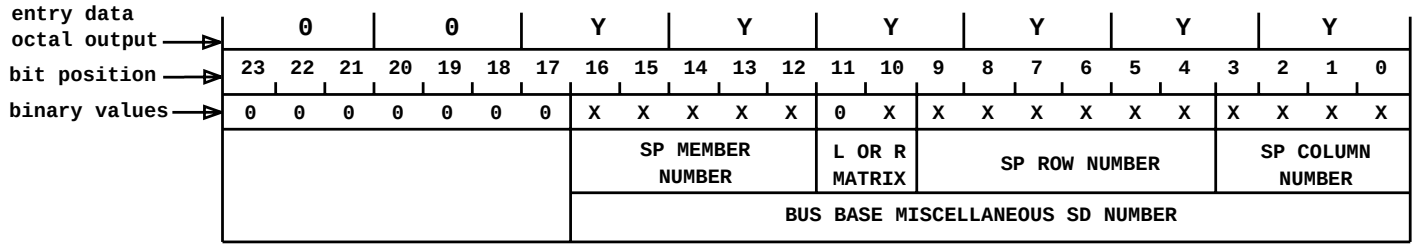
TABLE B (Contd)

ENTRY WORD (OCTAL) 7

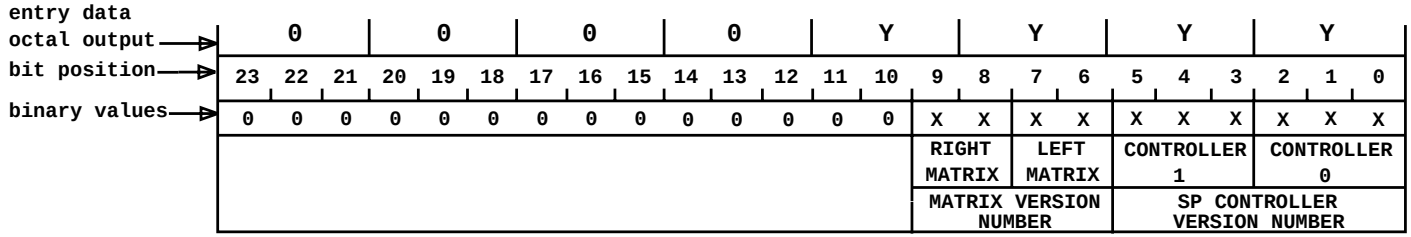
UT ENTRY DATA AND WORD CONFIGURATION



X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-462 or equivalent

Y = Variable octal numbers

ENTRY WORD (OCTAL) 10



X...X = Version numbers of SP equipment as reflected in appropriate office record drawings and shipping info

Y = Variable octal numbers

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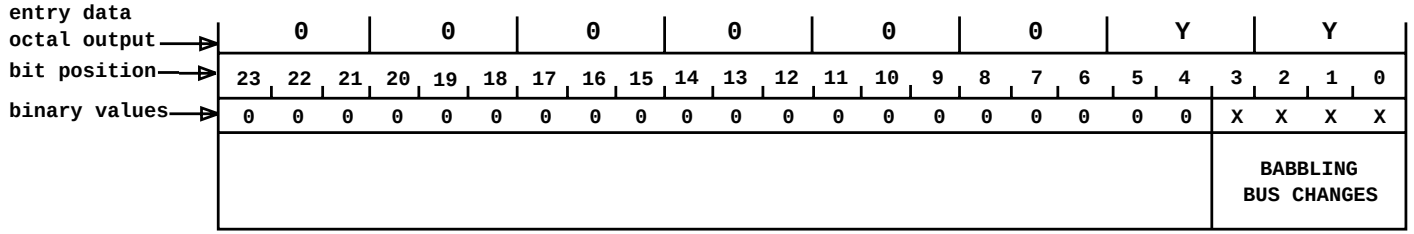
TABLE B (Contd)

ENTRY WORD (OCTAL) | **UT ENTRY DATA AND WORD CONFIGURATION**

11

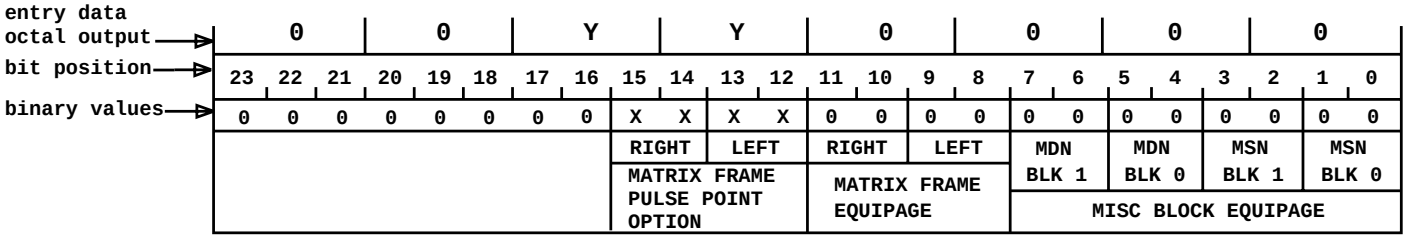


If babbling bus feature is to be incorporated:
X ==Babbling Bus Change (bit 0-IPUB 0, CONTR 0)
(bit 1-IPUB 0, CONTR 1)
(bit 2-IPUB 1, CONTR 0)
(bit 3-IPUB 1, CONTR 1)

Y = Variable octal numbers

==0 indicates babbling bus change is not present
1 indicates babbling bus change is present

13



XX = 2-digit code corresponding to pulse point option as reflected in office record drawing T-nnn-Hn-3870 or equivalent

= 00 — no pulse points
01 — 256 pulse points
10 — 512 pulse points
11 — invalid

Y = Variable octal numbers

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TABLE B (Contd)

ENTRY WORD (OCTAL) | **UT ENTRY DATA AND WORD CONFIGURATION**

14

entry data octal output → Y Y Y Y Y Y Y Y

bit position →

23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
Z	Z	V	V	V	V	V	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X
TEST SCAN POINT		PULSE POINT DUPLICATE SP					SP MEMBER NUMBER					L OR R MATRIX		SP ROW NUMBER						SP COLUMN NUMBER			
LEFT MATRIX BASE MISCELLANEOUS SCAN NUMBER																							

Y = Variable octal numbers

X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-461 or equivalent

V...V = Converts to associated SP member number, or all zeros if pulse points not equipped, or value of 31 if pulse points equipped without associated SP

ZZ = Maintenance scan and SD point assignment (SP with universal and/or miscellaneous points)
Left Frame
00 = 0000
10 = 2048
Right Frame
01 = 1024
11 = 3072
(Used when right frame only or equipped, or if right frame equipped prior to left)

ZZ = Maintenance scan and SD point assignment (SP with miscellaneous points only)
00 = 4607 (Misc. point 511 in left matrix)
01 = 5631 (Misc. point 511 in right matrix)

15

entry data octal output → Y Y Y Y Y Y Y Y

bit position →

23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
0	0	0	0	0	0	0	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X
							SP MEMBER NUMBER					L OR R MATRIX		SP ROW NUMBER						SP COLUMN NUMBER			
RIGHT MATRIX BASE MISCELLANEOUS SCAN NUMBER																							

Y = Variable octal numbers

X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-461 or equivalent

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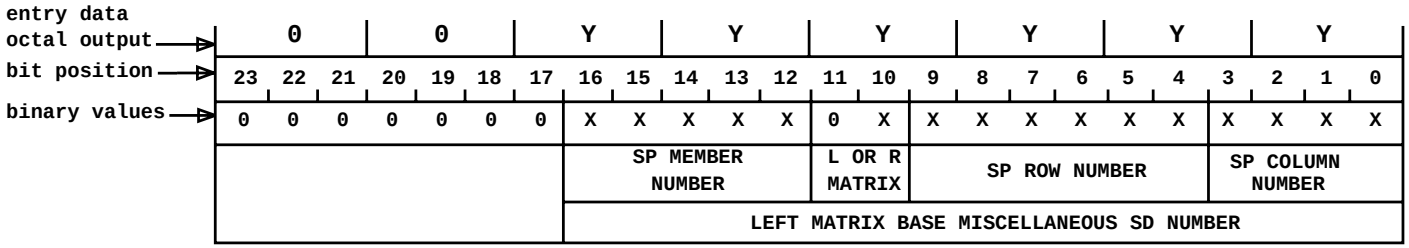
TABLE B (Contd)

ENTRY WORD (OCTAL)	UT ENTRY DATA AND WORD CONFIGURATION

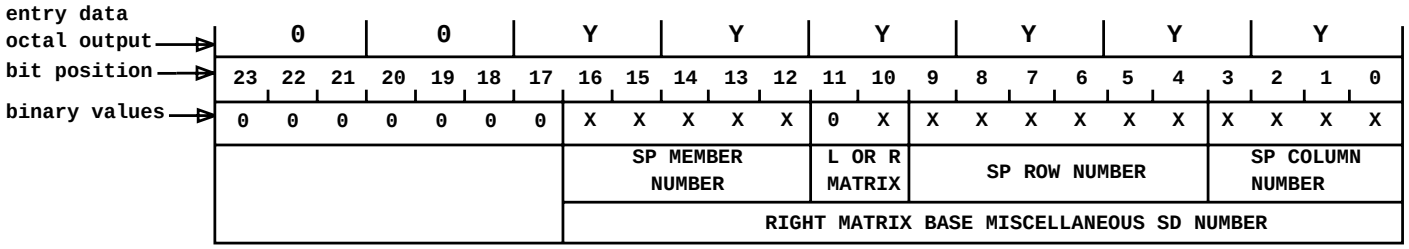
16



X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-462 or equivalent

Y = Variable octal numbers

17



X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-462 or equivalent

Y = Variable octal numbers

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SUMMARY

Using verify entry input message, call up growth associated SP 1 UT translator and verify that matrix data of resulting TTY octal output data, when converted, agrees with office records. Refer to entry word explanations in TABLE B, Page 5 as required, for assistance in interpreting specific data fields. If it is determined that UT entry data are in error, word change(s) may be required.

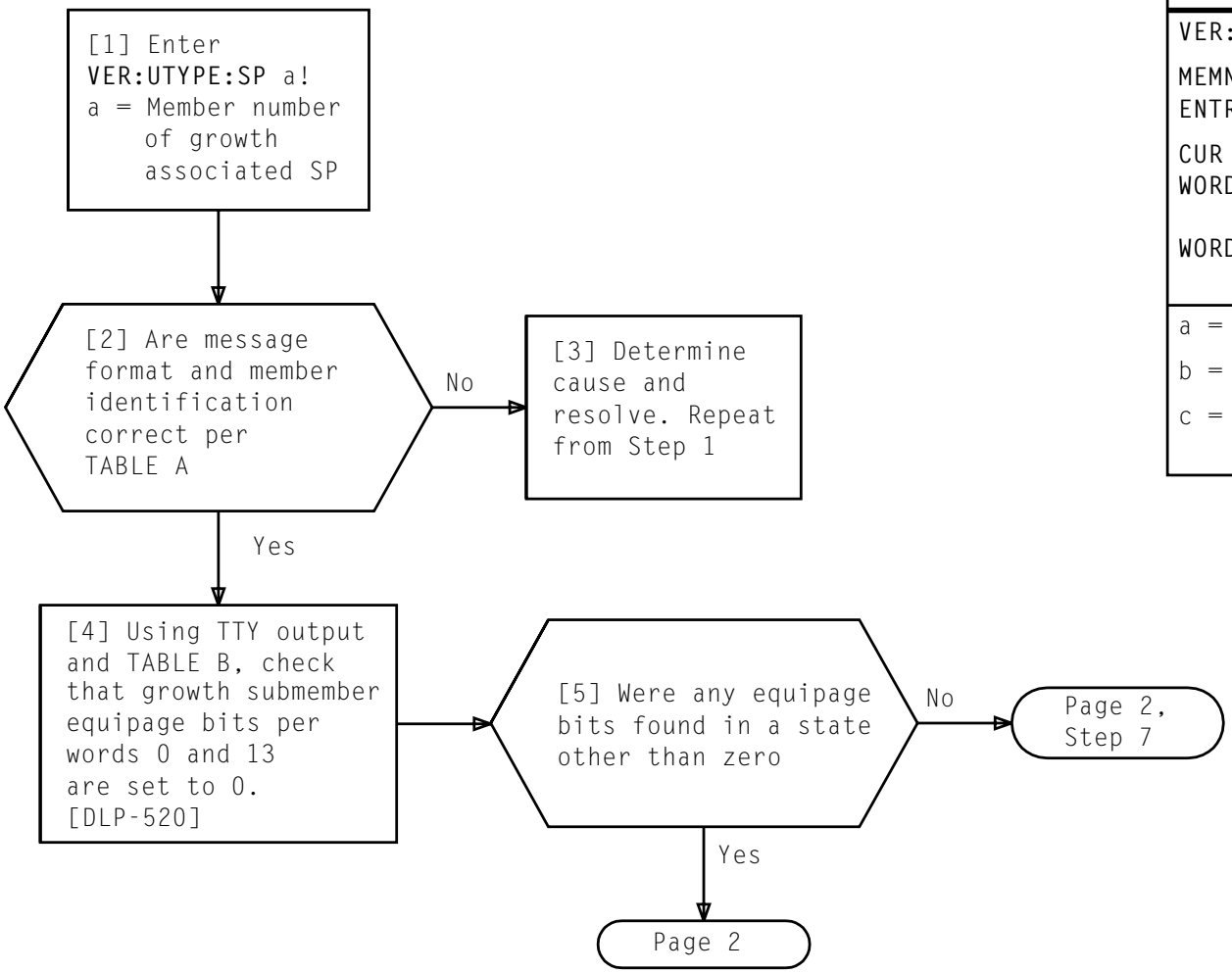

TABLE A

VER:UTMN;OPT( ),CUR: FLN a, UTYN SP,

MEMN b, ME OPER,
ENTRY ADDRESS c, ENTRY SIZE 16,

CUR
WORD 0 ___ ___ ___ ___
___ ___ ___ ___
WORD 10 ___ ___ ___ ___
___ ___ ___ ___

a = Floor location number

b = Member number of growth associated SP

c = Starting octal address for unit type entry

VERIFY MATRIX DATA OF SP1 UT TRANSLATOR

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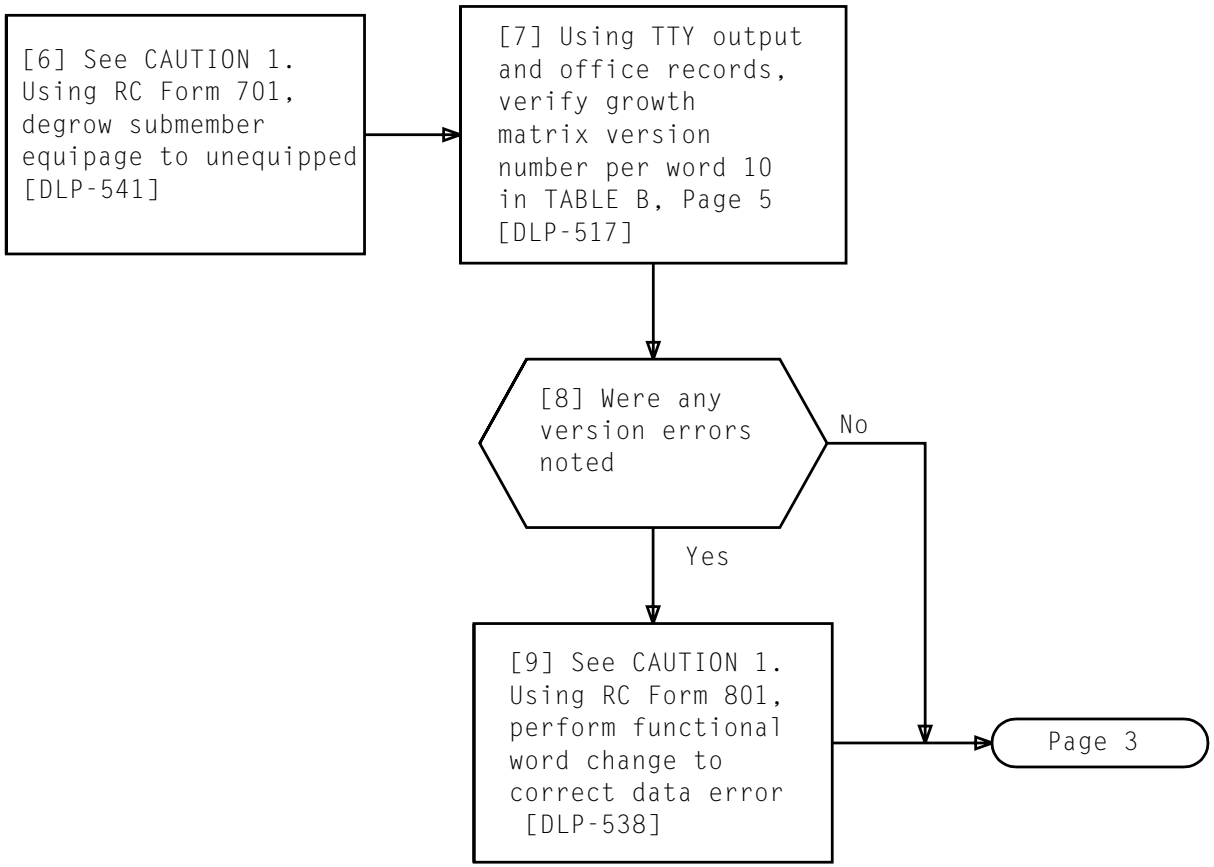

CAUTION 1
Depending on local procedures, supervisory or TELCO engineering approval must be obtained prior to performing any data change.

VERIFY MATRIX DATA OF SP1 UT TRANSLATOR

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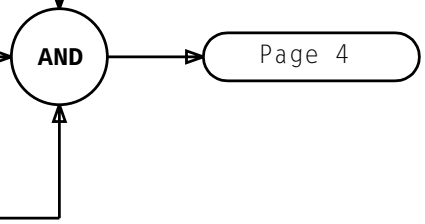
Using TTY output, TABLE B, Page 5
and office records:

[10] Verify SD point assignment for growth matrix per word 16 or 17 [DLP-534]

[11] Verify scan point assignment for growth matrix per word 14 or 15 [DLP-536]

[12] Verify pulse point option and duplicate SP member number per words 13 and 14 [DLP-537]



VERIFY MATRIX DATA OF SP1 UT TRANSLATOR

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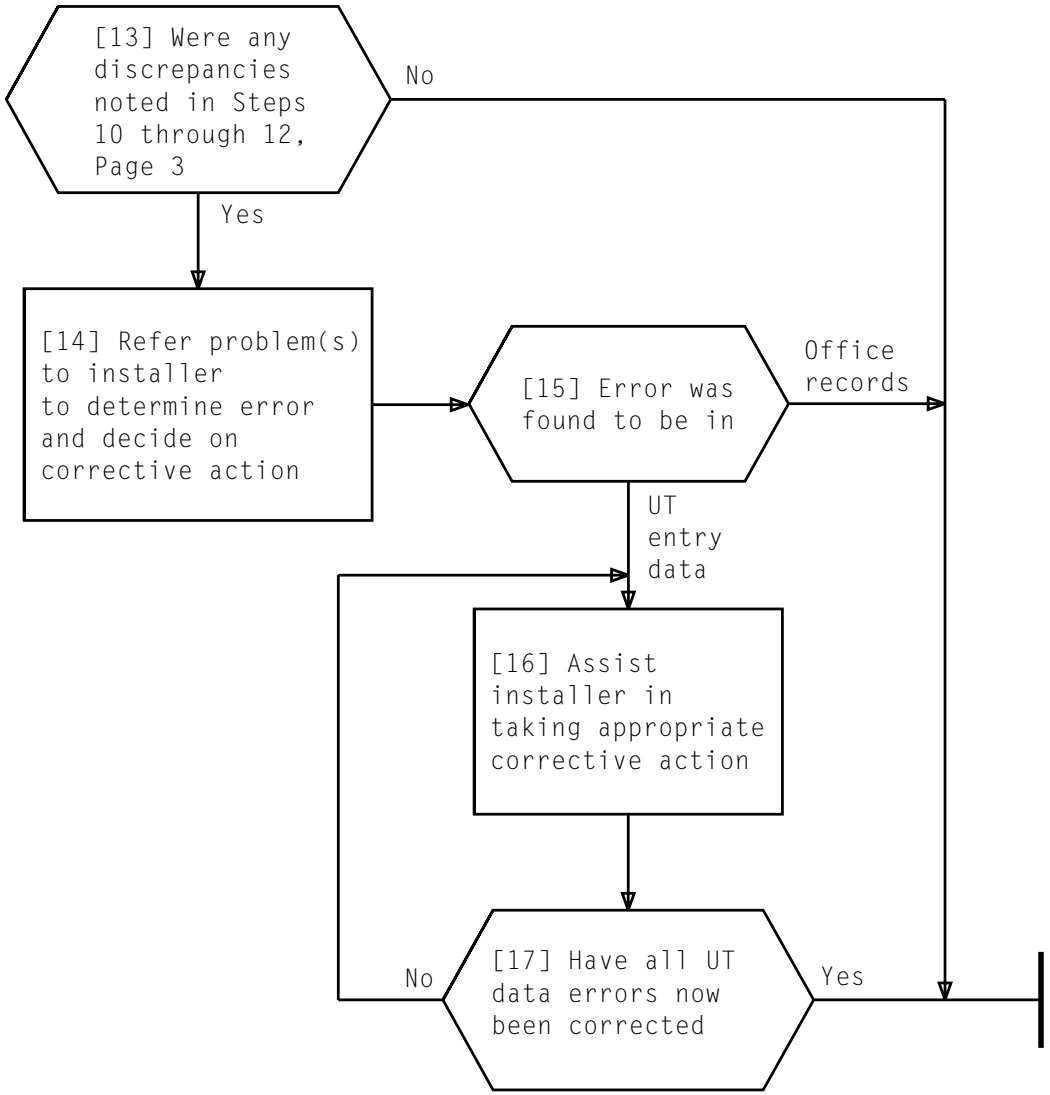

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TABLE B

ENTRY WORD (OCTAL) 0

UT ENTRY DATA AND WORD CONFIGURATION

entry data octal output → 4 Y Y Y Y Y Y Y

bit position →

23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
1	0	0	W	W	W	1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

binary values →

MEMBER TYPE	MEMBER TYPE HARDWARE GENERATOR		TDN BLK 3	TDN BLK 2	TDN BLK 1	TDN BLK 0	TSN BLK 3	TSN BLK 2	TSN BLK 1	TSN BLK 0
			UNIV SD BLOCK EQUIPAGE				UNIV SCAN BLOCK EQUIPAGE			

XX ==00 For Scan Or SD Blocks Associated With Matrix Frame Being Added And Other Unequipped Blocks.

XX ==11 For Each Operational Scan Or SD Block.

Y ==Variable Octal Number

ENTRY WORD (OCTAL) 10

entry data octal output → 0 0 0 0 Y Y Y Y

bit position →

23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	X	X	X	X	V	V	V	V	V	V

binary values →

		RIGHT MATRIX	LEFT MATRIX	
		MATRIX VERSION NUMBER		

XX ==Version Number Of Matrix As Reflected In Appropriate Office Record Drawing And Shipping Information

Y ==Variable Octal Numbers

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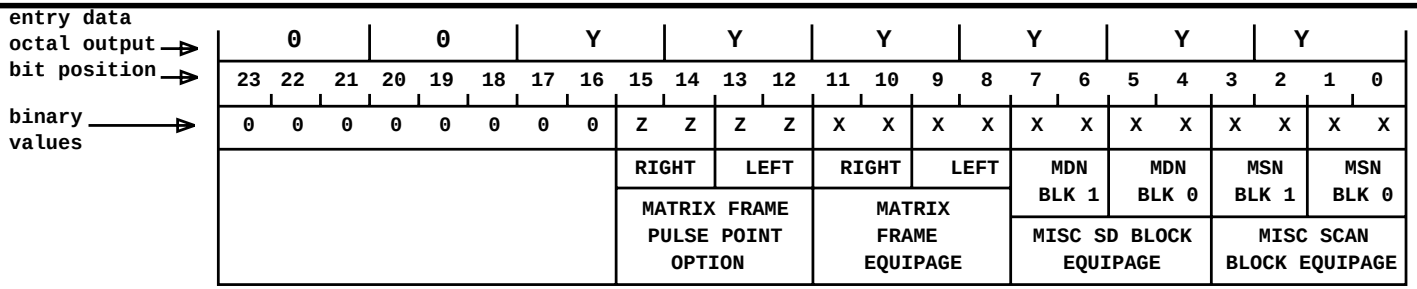
TABLE B (Contd)

ENTRY WORD (OCTAL)	UT ENTRY DATA AND WORD CONFIGURATION



13

ZZ ==2-Digit Code Corresponding To Pulse Point Option As Reflected In Office Record Drawing T-nnnn-Hn-3870 Or Equivalent

00 For No Pulse Points,
01 For 256 Pulse Points,
10 For 512 Pulse Points, Or
11 For Invalid.

Y ==Varible Octal Number

XX ==00 For Matrix Frame, Scan And SD Blocks Being Added And Other Unequipped Blocks.

XX ==11 For Other Matrix Frame And Operational Scan And SD Blocks

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ENTRY WORD (OCTAL)	UT ENTRY DATA AND WORD CONFIGURATION

entry data octal output →
bit position →
binary values →

23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
							X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X
		PULSE POINT DUPLICATE SP					SP MEMBER NUMBER					L OR R MATRIX		SP ROW NUMBER						SP COLUMN NUMBER			
							LEFT MATRIX BASE MISCELLANEOUS SCAN NUMBER																	

Y = Variable octal numbers
X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-461 or equivalent

V...V = Converts to associated SP member number, all zeros if pulse points not equipped, or

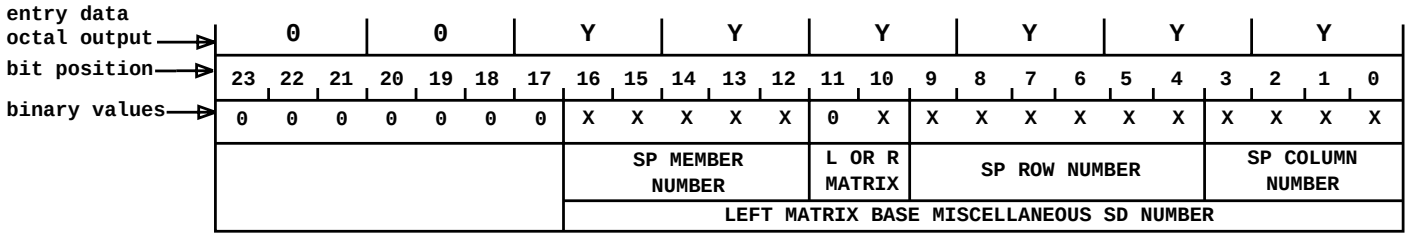
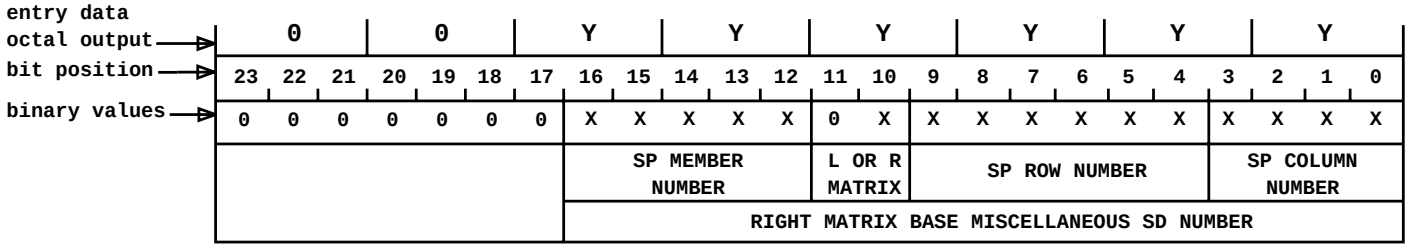
entry data octal output →
bit position →
binary values →

23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
0	0	0	0	0	0	0	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X
							SP MEMBER NUMBER					L OR R MATRIX		SP ROW NUMBER						SP COLUMN NUMBER			
							RIGHT MATRIX BASE MISCELLANEOUS SCAN NUMBER																	

X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-461 or equivalent

Y = Variable octal numbers

TABLE B (Contd)

ENTRY WORD (OCTAL)	UT ENTRY DATA AND WORD CONFIGURATION
16	
17	

X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-462 or equivalent

Y = Variable octal numbers

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SUMMARY

Verify from entry output message words 0 and 13, that growth matrix submember equipage bits are set to zero. Note any discrepancies for later reference.

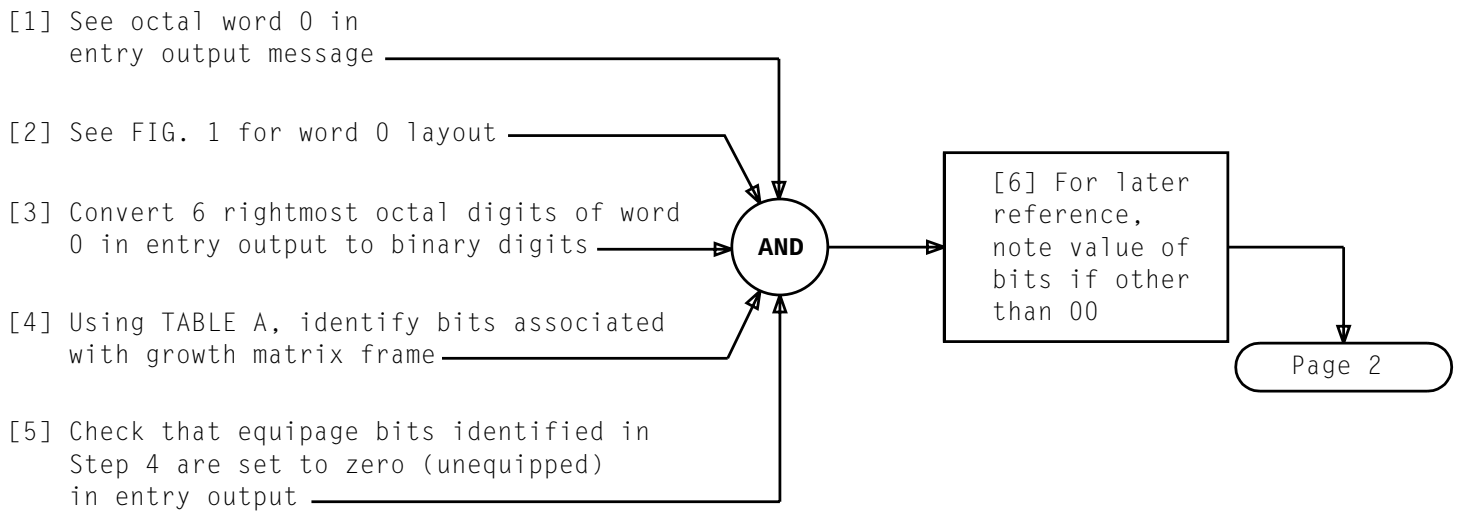

TABLE A

MATRIX	OCTAL WORD	BINARY BITS
Left	0	0,1
	0	4,5
	0	8,9
	0	12,13
	13	0,1
	13	4,5
	13	8,9
Right	0	2,3
	0	6,7
	0	10,11
	0	14,15
	13	2,3
	13	6,7
	13	10,11

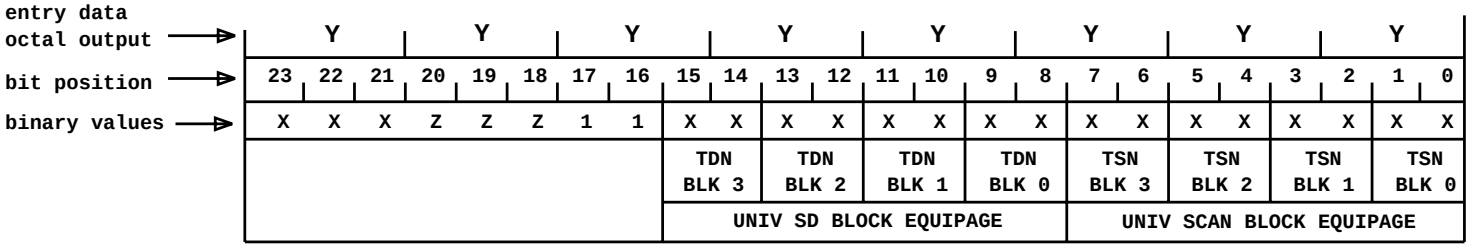

FIG. 1 — Entry Word 0 Layout

VERIFY UNEQUIPPED STATUS OF GROWTH MATRIX SUBMEMBERS

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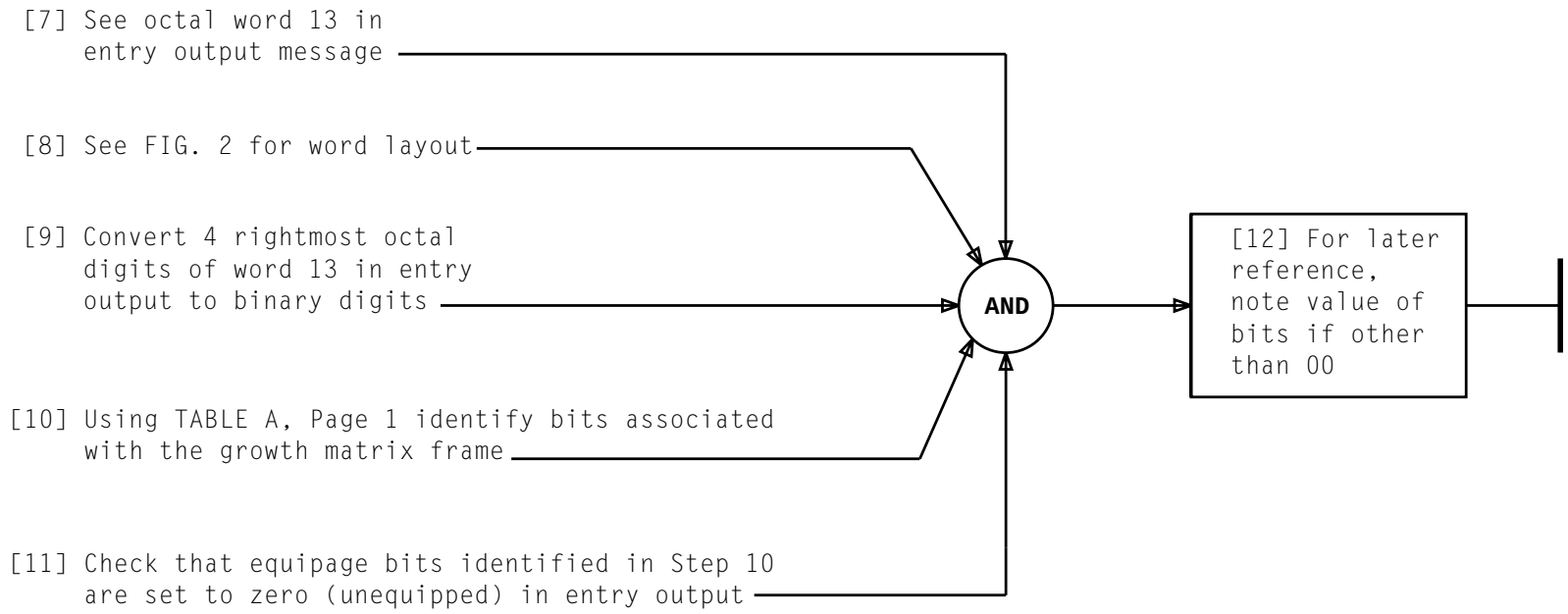

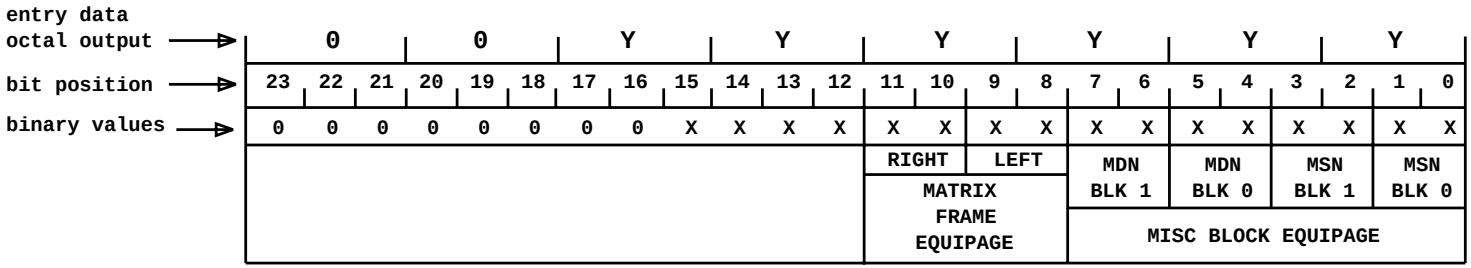

FIG. 2 — Entry Word 13 Layout

VERIFY UNEQUIPPED STATUS OF GROWTH MATRIX SUBMEMBERS

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SUMMARY

Using verify entry input message, call up growth SP2 UT translator and verify that resulting TTY octal output data, when converted, agrees with office records. Refer to entry word explanations in TABLE B, Page 5 as required, for assistance in interpreting specific data fields. If it is determined that UT entry data are in error, word change(s) may be required.

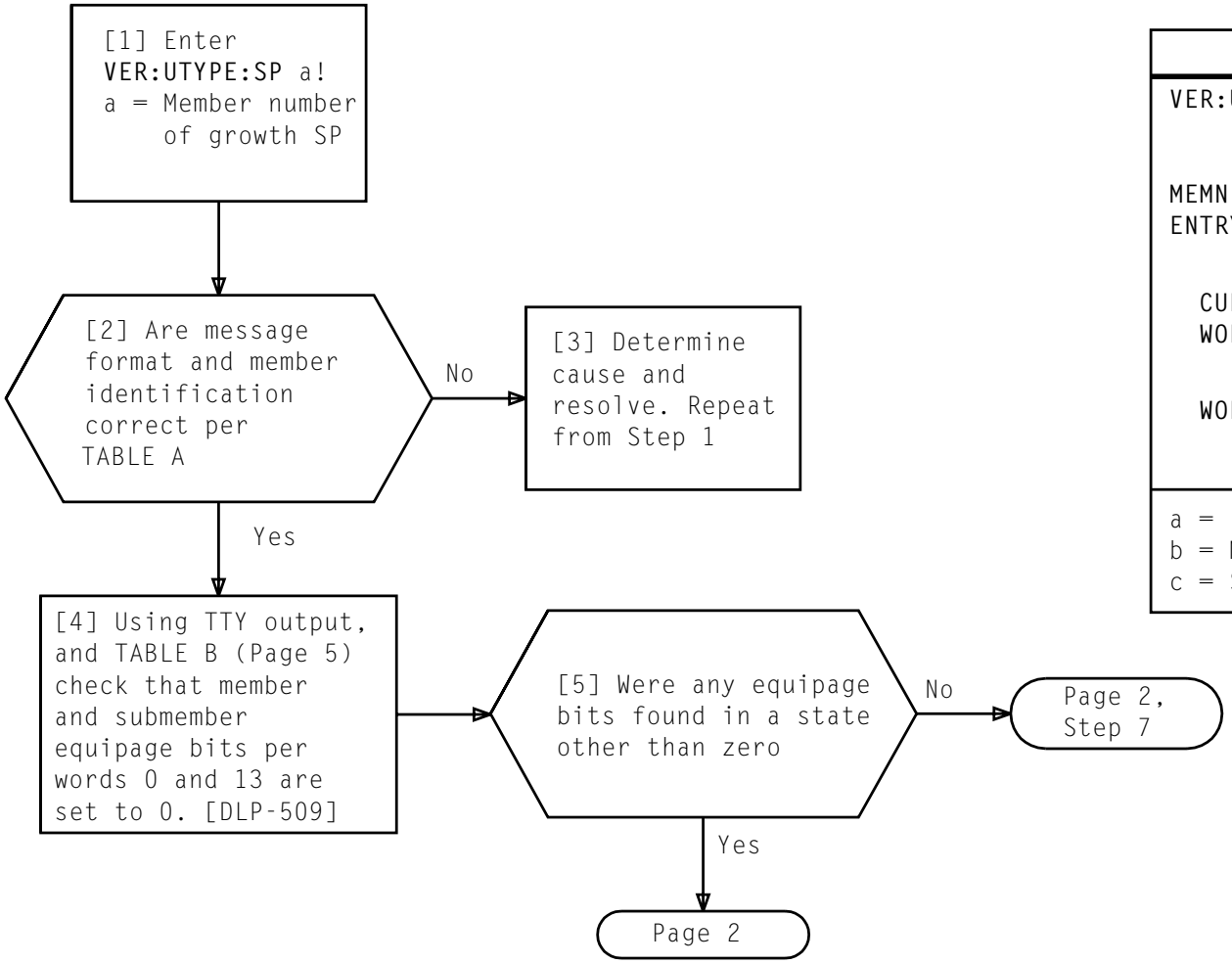

TABLE A

VER:UTMN;OPT( ),CUR: FLN a, UTYN SP,

MEMN b, ME UNEQ,
ENTRY ADDRESS c, ENTRY SIZE 16,

CUR				
WORD 0	_____	_____	_____	_____
	_____	_____	_____	_____
WORD 10	_____	_____	_____	_____
	_____	_____	_____	_____

a = Floor location number
b = Member number of growth SP
c = Starting octal address for unit type entry

VERIFY SP2 UT TRANSLATOR

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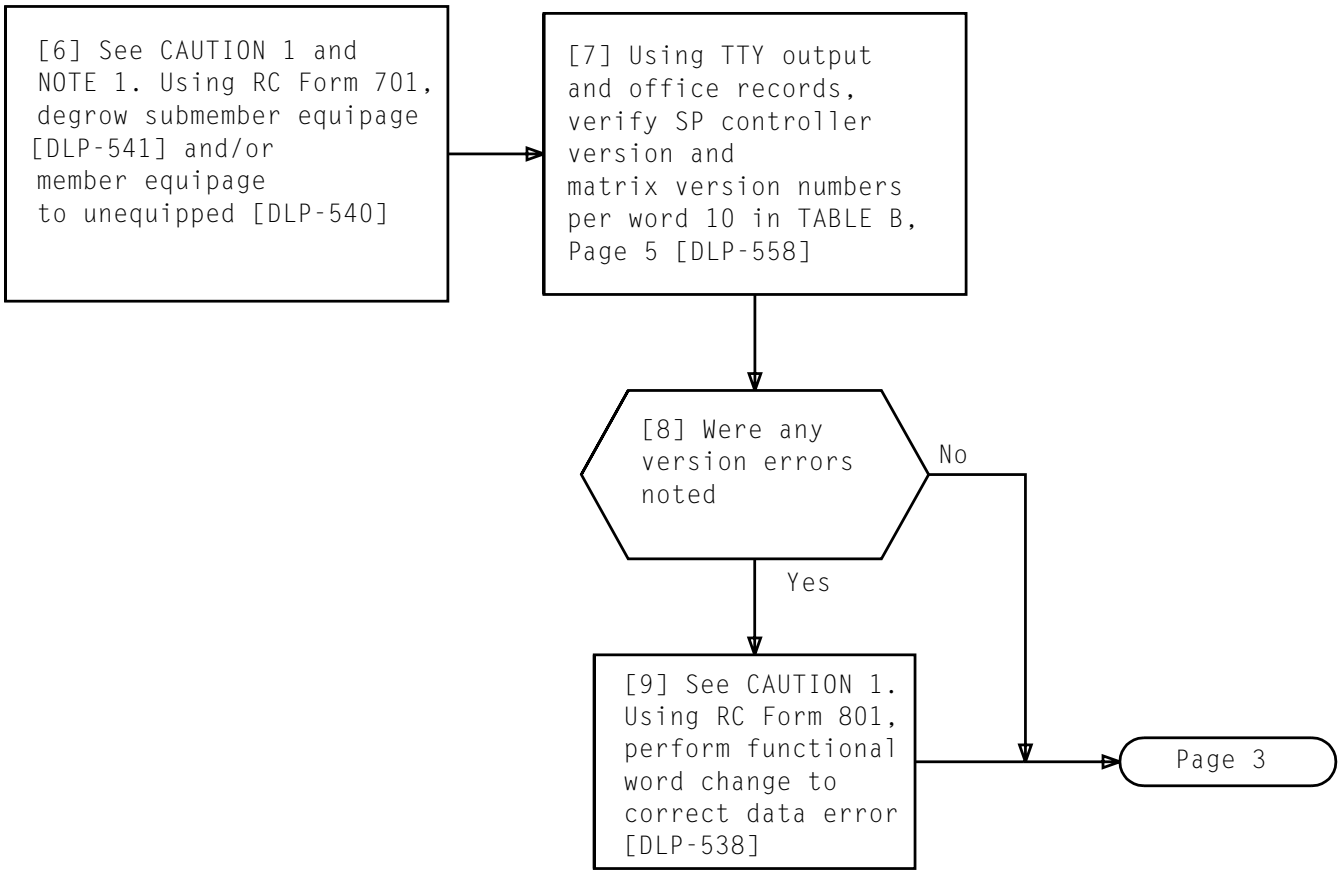

NOTE 1
Submember equipage must be degrown first if required followed by degrowth of member equipage, if required

CAUTION 1
Depending on local procedures, supervisory or TELCO engineering approval must be obtained prior to performing any data change.

VERIFY SP2 UT TRANSLATOR

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Using TTY output, TABLE B, Page 5
and office records:

[10] Verify miscellaneous member type data of word 0, bits 18 through 23

[11] Verify alarm grid, lineup, and frame assignment for growth frame per word 1 [DLP-533]

[12] Verify PUB branch assignment for growth SP per word 3 [DLP-535]

AND

[13] Verify babbling bus changes per word 11

[14] Verify member number data per bits 0-13, word 12 [DLP-510]

[15] Verify pulse point option and duplicate SP member number per words 13 and 14 [DLP-537]

[16] Verify SD and pulse point assignments for growth SP per words 2, 5, 6, 7, and 16 [DLP-534]

[17] Verify scan point assignments for growth SP per words 3, 4, and 14 [DLP-536]

AND

Page 4

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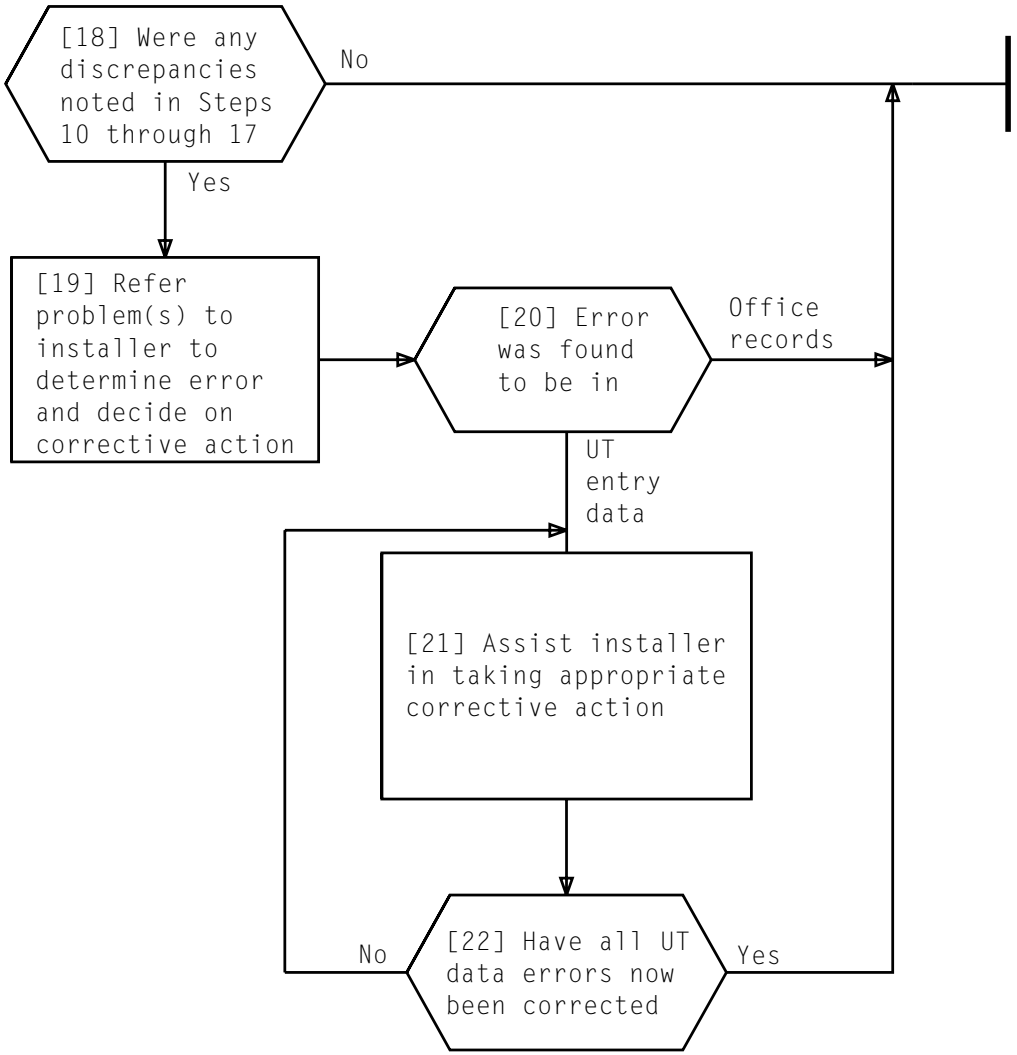

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TABLE B

ENTRY WORD (OCTAL): 0

UT ENTRY DATA AND WORD CONFIGURATION

entry data octal output → 2 0 0 0 0 0 0 0

bit position → 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0

binary values → 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

MEMBER TYPE	MEMBER TYPE HARDWARE GENERATION	MEMBER EQUIPAGE		SP2EQ	
				3 2 1 0	
					SUBTYPE SUBMEMBER EQUIPAGE

ENTRY WORD (OCTAL): 1

entry data octal output → Y Y Y Y Y Y Y Y

bit position → 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0

binary values → Z Z Z Z X X X X X X X X X X X X X X X X X X X X

ASSIGNED ALARM GRID NUMBER	FRAME LINEUP NUMBER	FRAME NUMBER

X...X = Converts to decimal frame info as reflected in office floor plan drawing

Y= Variable octal numbers

ZZZZ = Converts to decimal alarm grid number as reflected in office record drawings T-nnnn-Hn-400,401,or 402 or equivalent

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TABLE B (Contd)

ENTRY WORD (OCTAL) 2

UT ENTRY DATA AND WORD CONFIGURATION

entry data octal output: 0 0 0 0 Y Y Y Y

bit position	23 22 21	20 19 18	17 16 15	14 13 12	11 10	9 8 7	6 5 4	3 2 1 0
binary values	0 0 0	0 0 0	0 0 0	0 0 0	0 X	X X X	X X X	X X X X
			SP MEMBER NUMBER		L OR R MATRIX	SP ROW NUMBER		SP COLUMN NUMBER
			BASE SP PULSE POINT					

X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-462 or equivalent

Y = Variable octal numbers

ENTRY WORD (OCTAL) 3

entry data octal output: Y Y Y Y Y Y Y Y

bit position	23 22	21 20 19	18	17 16 15 14 13	12 11 10	9 8 7	6 5 4	3 2 1 0
binary values	0 1	Z Z Z	0	0 X X X X	X 0 X	X X X	X X X	X X X X
		PUB BRANCH NUMBER ASSIGNMENT		SP MEMBER NUMBER	L OR R MATRIX	SP ROW NUMBER		SP COLUMN NUMBER
				MEMBER BASE MISCELLANEOUS SCAN NUMBER				

X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-461 or equivalent

Y = Variable octal numbers

ZZZ = 3-digit code corresponding to lettered PUB branch as reflected in office record drawing T-nnnn-Hn-3840 or equivalent

= 000 - branch A&B
001 - branch C&D
010 - branch E&F
011 - branch G&H
100 - branch K&L
101 - branch M&R
110 - branch T&V
111 - branch W&X

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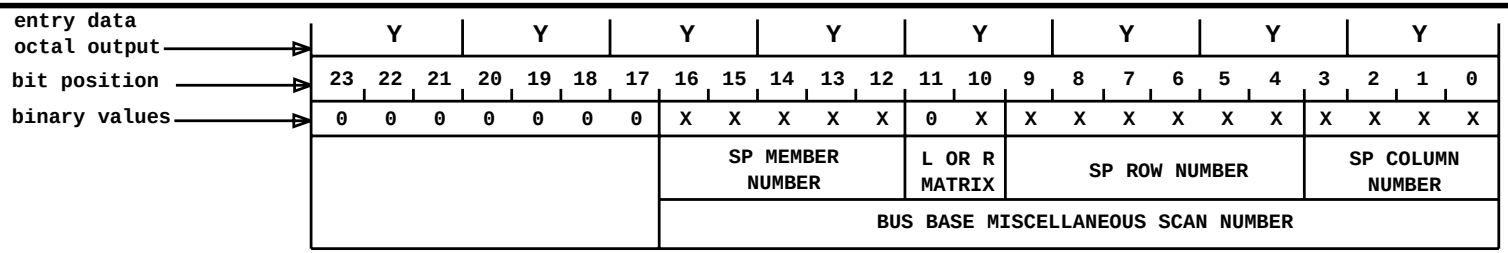
TABLE B (Contd)

ENTRY WORD (OCTAL) | **UT ENTRY DATA AND WORD CONFIGURATION**

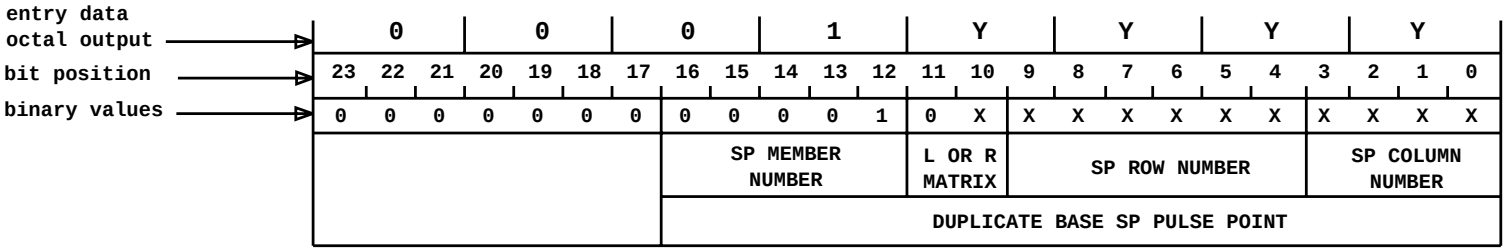
4



X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-461 or equivalent

Y = Variable octal numbers

5



X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-462 or equivalent

Y = Variable octal numbers

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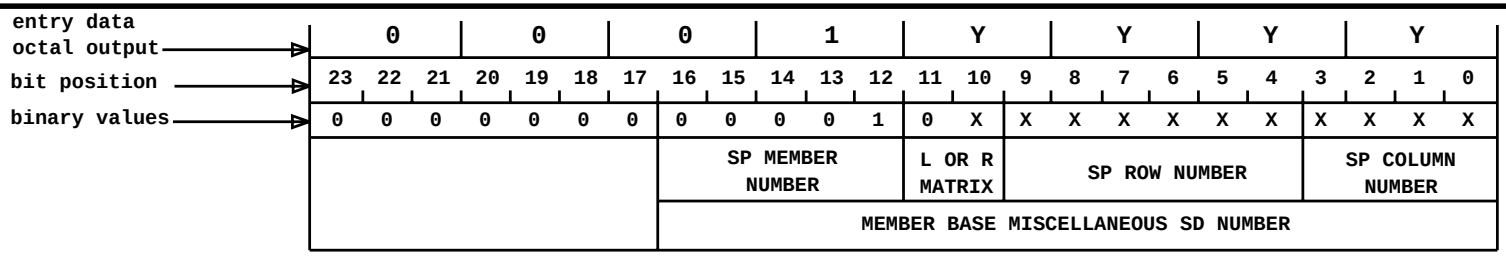
TABLE B (Contd)

ENTRY WORD (OCTAL)	UT ENTRY DATA AND WORD CONFIGURATION

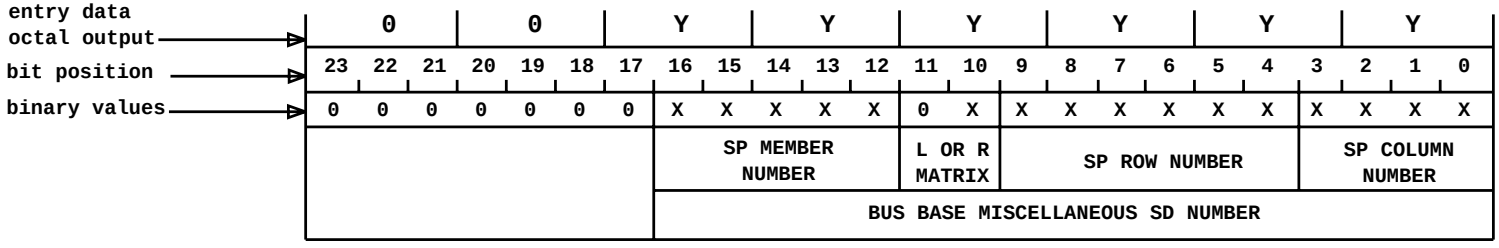
6



X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-462 or equivalent

Y = Variable octal numbers

7



X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-462 or equivalent

Y = Variable octal numbers

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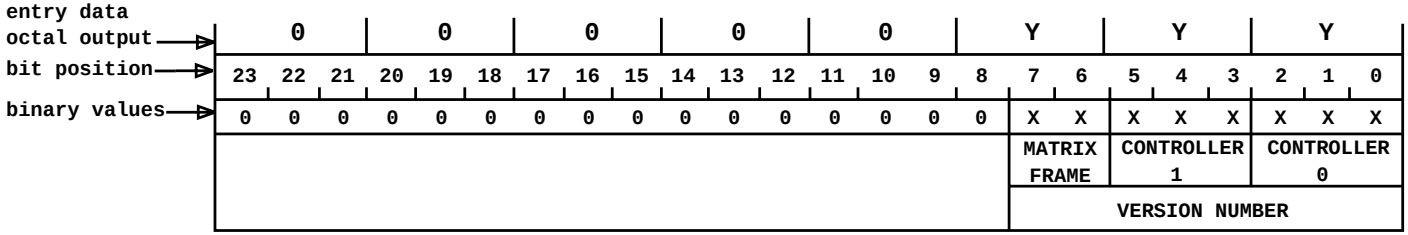
TABLE B (Contd)

ENTRY WORD (OCTAL)	UT ENTRY DATA AND WORD CONFIGURATION

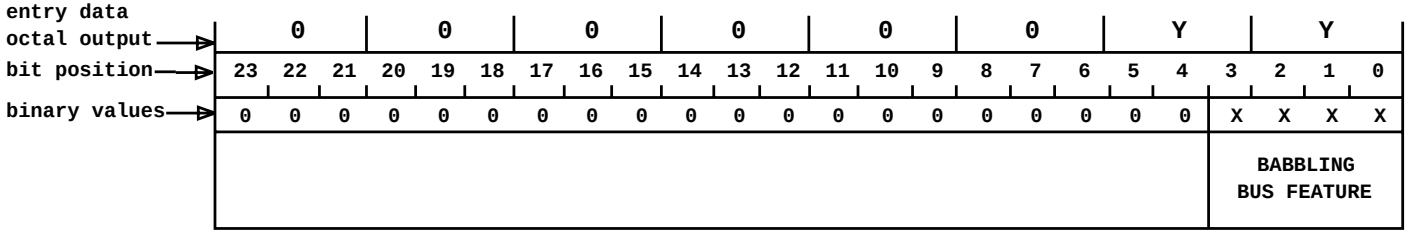
10



X...X = Version numbers of SP equipment as reflected in appropriate office record drawings and shipping info

Y = Variable octal numbers

11



X ==Babbling Bus Change (bit 0-IPUB 0, CONTR 0)
(bit 1-IPUB 0, CONTR 1)
(bit 2-IPUB 1, CONTR 0)
(bit 3-IPUB 1, CONTR 1)
==0 indicates babbling bus change is not present
1 indicates babbling bus change is present

Y = Variable octal numbers

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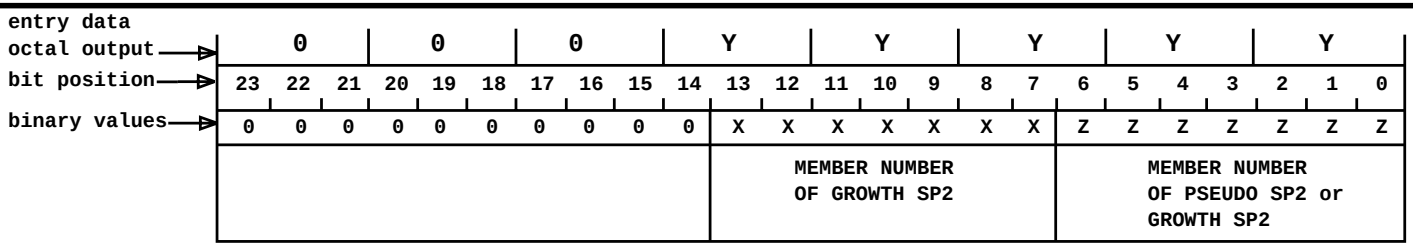
TABLE B (Contd)

ENTRY WORD (OCTAL)	UT ENTRY DATA AND WORD CONFIGURATION

12

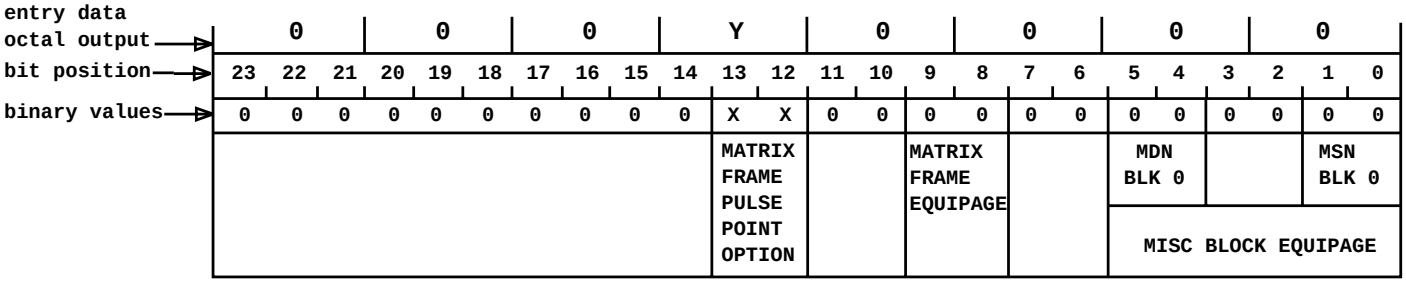


X...X = Member number of this growth SP2

Y = Variable octal numbers

Z...Z = Member number of PSEUDO SP2 (for CCIS-Type DT interface) or
Member number of this growth SP2 (for E&M type DT interface)

13



XX = 2-digit code corresponding to pulse point option

Y = Variable octal number

00 — no pulse points
01 — 256 pulse points
10 — 512 pulse points
11 — invalid

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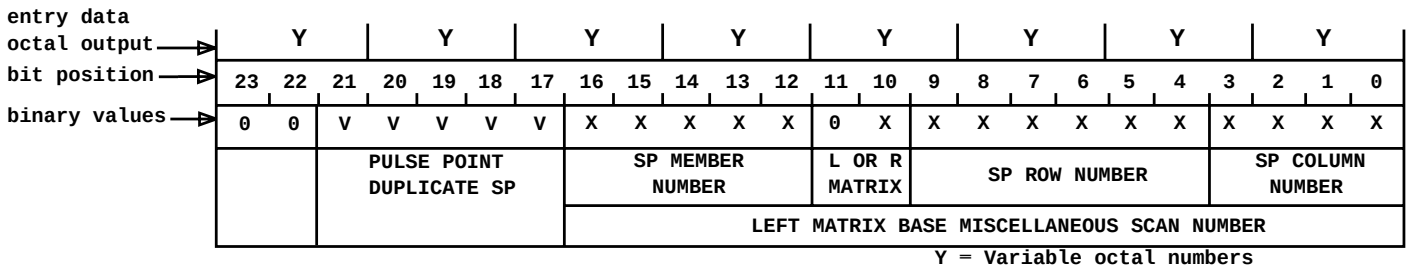
TABLE B (Contd)

ENTRY WORD (OCTAL)	UT ENTRY DATA AND WORD CONFIGURATION
14	

Y = Variable octal numbers

X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-461 or equivalent

V...V = Converts to associated SP member number, all zeros if pulse points not equipped, or value of 31 if pulse points equipped without associated SP

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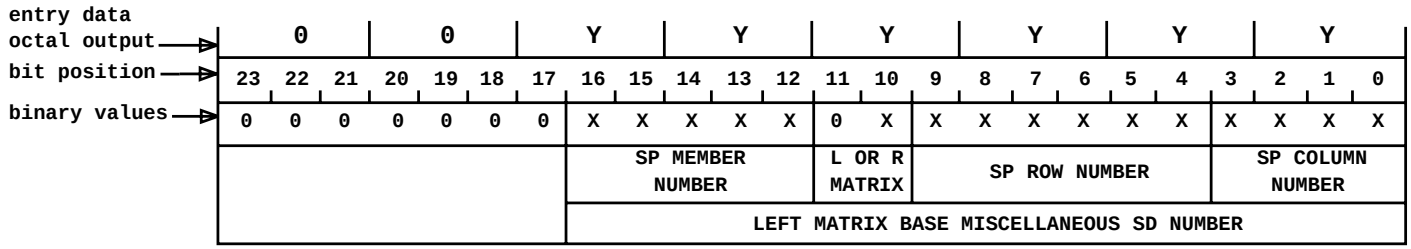
TABLE B (Contd)

ENTRY WORD (OCTAL)	UT ENTRY DATA AND WORD CONFIGURATION
16	

X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-462 or equivalent

Y = Variable octal numbers

```
VER:UTMN,OPT(MISC,CUR):          UTYN SP,
MEMN a,
         SP PORT       DIGROUP TERMINAL
            0                  b
            1                  b
            2                  b
            3                  b
            4                  c
            5                  c
            6                  c
            7                  c
            8                  c
            9                  c
           10                  c
           11                  c
           12                  c
           13                  c
           14                  c
           15                  c
```

a = Member number of this SP 2

b = Member number of E & M type digroup terminal frame assigned to associated SP port

c = Member number of CCIS type digroup terminal frame assigned to associated SP port

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SUMMARY	
Using verify entry input message, call up growth associated SP2 UT translator and verify that resulting TTY octal output data associated with growth supplementary matrix frame when converted, agrees with office records.	Refer to entry word explanations in TABLE B, Page 4 as required, for assistance in interpreting specific data fields. If it is determined that UT entry data are in error, word change(s) may be required.

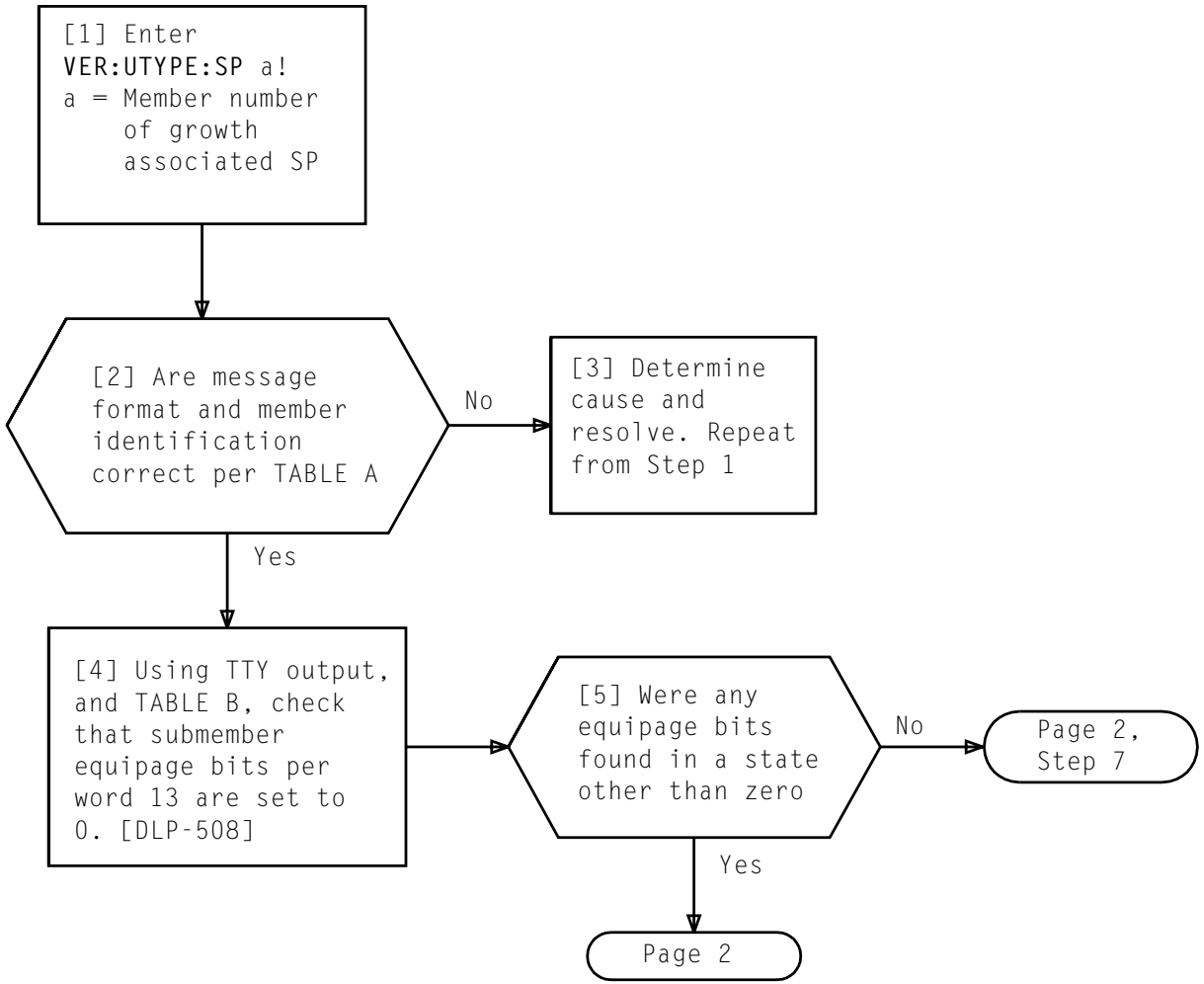

TABLE A

```
VER:UTMN;OPT( ),CUR:  FLN a,      UTYN SP,

MEMN b,        ME OPER,
ENTRY ADDRESS c,           ENTRY SIZE 16,

CUR
WORD 0  ____ ____ ____ ____
        ____ ____ ____ ____
WORD 10 ____ ____ ____ ____
        ____ ____ ____ ____
```

a = Floor location number
b = Member number of growth associated SP
c = Starting octal address for unit type entry

VERIFY MATRIX DATA OF SP2 UT TRANSLATOR

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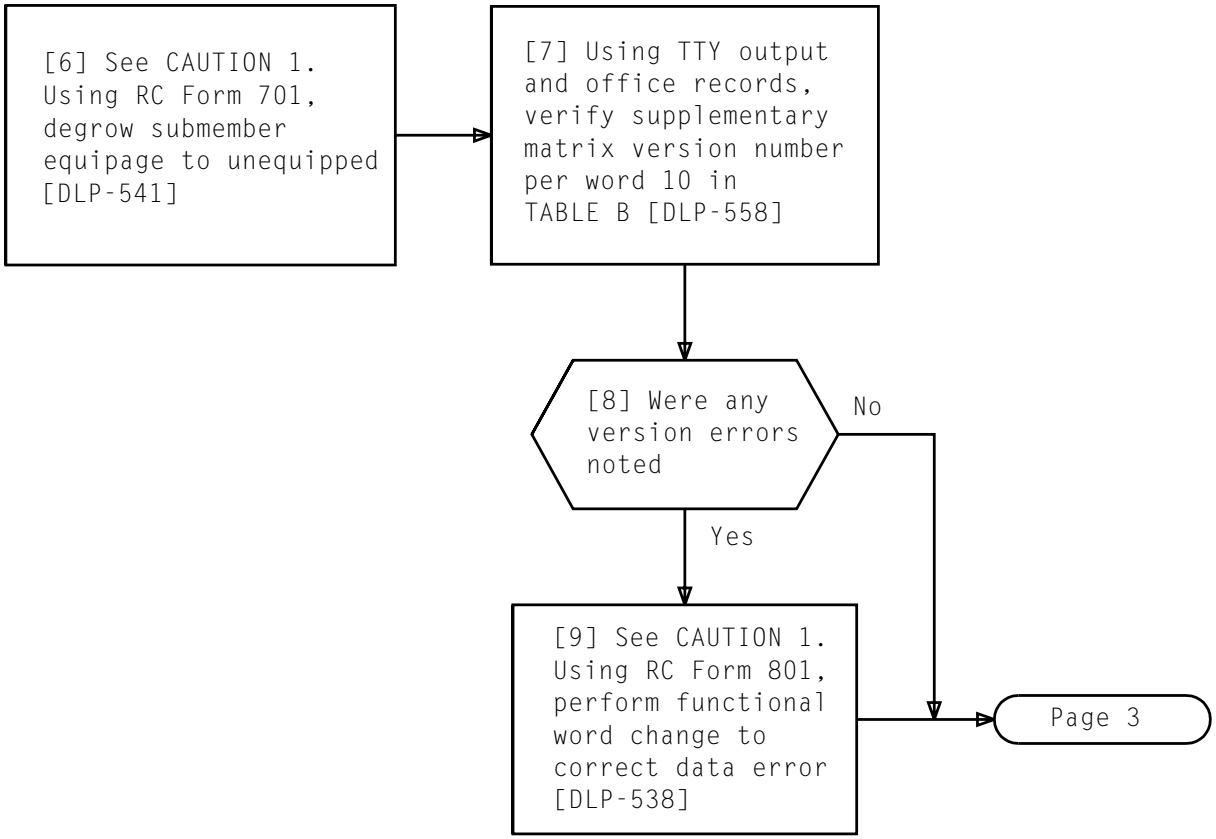

CAUTION 1
Depending on local procedures, supervisory or TELCO engineering approval must be obtained prior to performing any data change.

VERIFY MATRIX DATA OF SP2 UT TRANSLATOR

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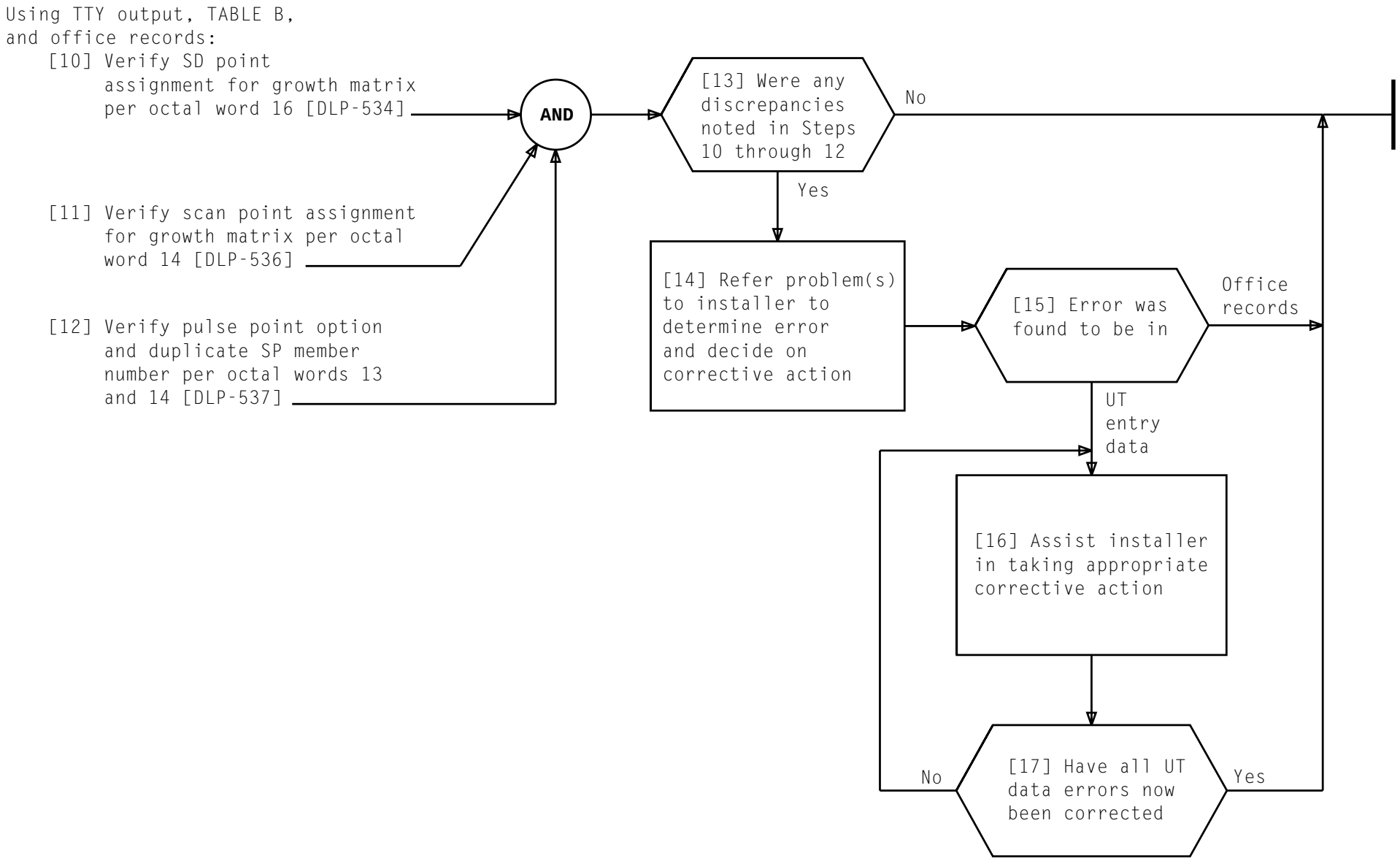

VERIFY MATRIX DATA OF SP2 UT TRANSLATOR

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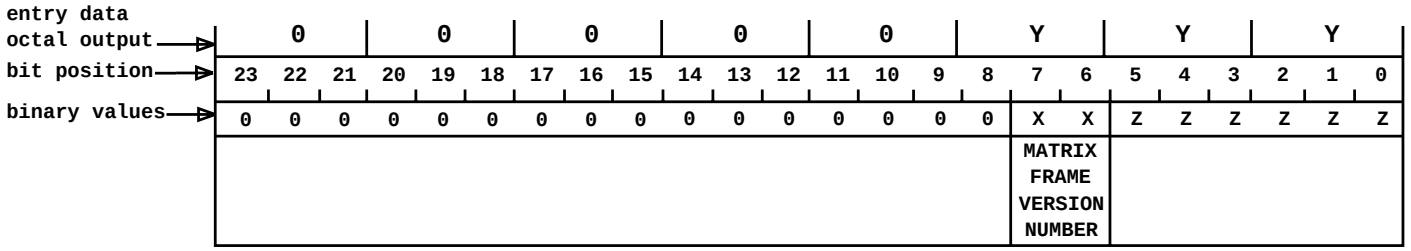
TABLE B

ENTRY WORD (OCTAL) 10

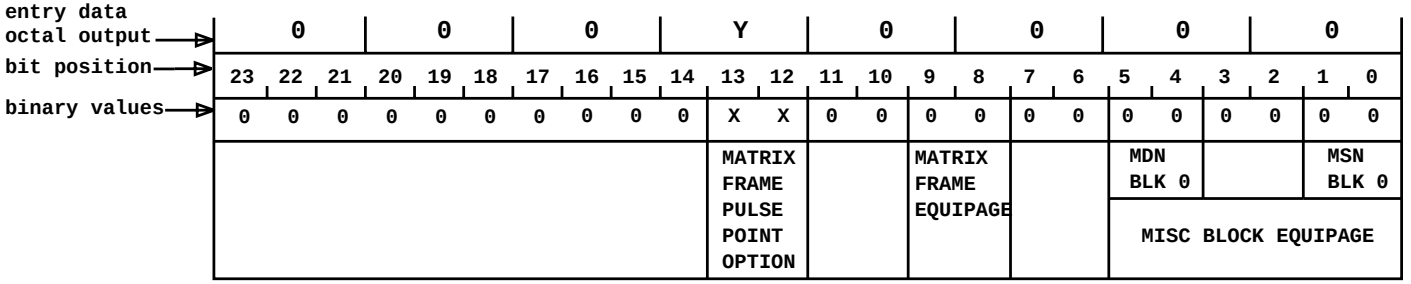
UT ENTRY DATA AND WORD CONFIGURATION



X...X = Version numbers of SP equipment as reflected in appropriate office record drawings and shipping info

Y = Variable octal numbers

ENTRY WORD (OCTAL) 13



XX = 2-digit code corresponding to pulse point option as reflected in office record drawing T-nnnn-Hn-3870 or equivalent
= 00 — no pulse points 10 — 512 pulse points
01 — 256 pulse points 11 — invalid

Y = Variable octal number

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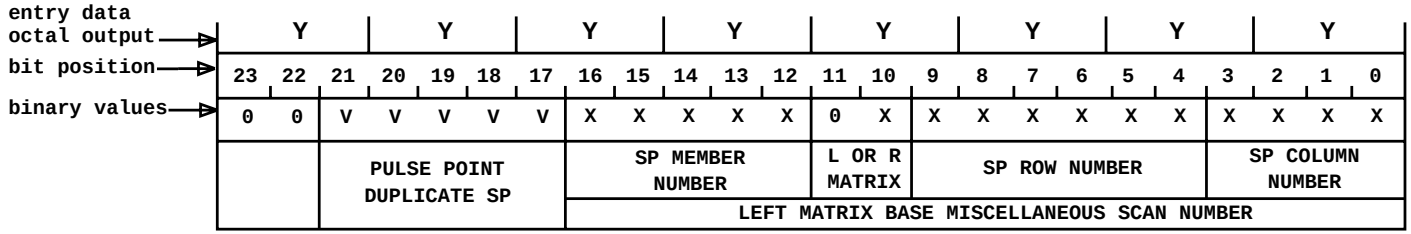
TABLE B (Contd)

ENTRY WORD (OCTAL) | **UT ENTRY DATA AND WORD CONFIGURATION**

14

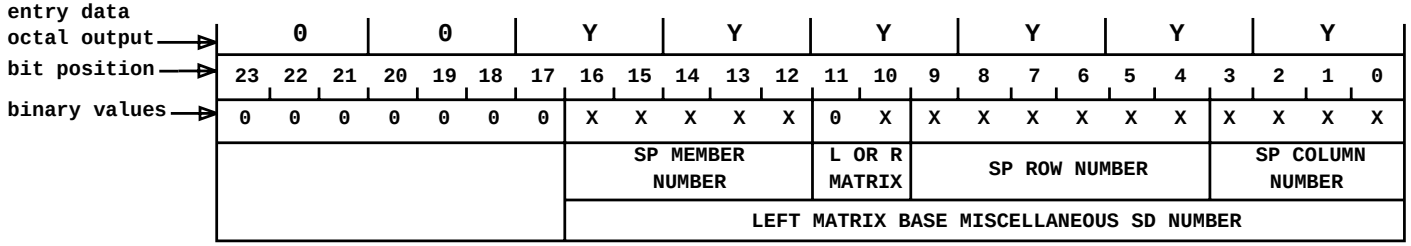


X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-461 or equivalent

V...V = Converts to associated SP member number, all zeros if pulse points not equipped, or value of 31 if pulse points equipped without associated SP

Y = Variable octal numbers

16



X...X = Converts to decimal SP info as reflected in office record drawing T-nnnn-Hn-462 or equivalent

Y = Variable octal numbers

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At Distributor and Scanner Matrix (D&SM) and/or Distributor Applique (DA) frame(s):

[1] Using TABLE A, identify fuse assignments for universal SD K block(s)

TABLE A

FRAME	K BLOCK	FUSE																							
D&SM	K0 (TDN 0) or K1 (TDN 1)	DESIG	AA0	AB0	AC0	AD0	AA1	AB1	AC1	AD1	BA0	BB0	BC0	BD0	BA1	BB1	BC1	BD1	CA0	CB0	CC0	CD0	CA1	CB1	CC1	CD1
		LOCN	107/607-22								209/709-30								207/707-04							
DA		DESIG	A00	A01	A02	A03	B00	B01	B02	B03																
		LOCN	007/507-27				007/507-33																			
D&SM	K2 (TDN 2) or K3 (TDN 3)	DESIG	AA2	AB2	AC2	AD2	AA3	AB3	AC3	AD3	BA2	BB2	BC2	BD2	BA3	BB3	BC3	BD3	CA2	CB2	CC2	CD2	CA3	CB3	CC3	CD3
		LOCN	107/607-28								209/709-36								207/707-10							
DA		DESIG	A20	A21	A22	A23	B20	B21	B22	B23																
		LOCN	007/507-27				007/507-39																			

IDENTIFY FUSE ASSIGNMENTS FOR UNIVERSAL SD K BLOCKS(S) AT D&SM AND DA FRAMES

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At Distributor and Scanner Matrix (D&SM) and/or Distributor Applique (DA) frame(s):

[1] Using TABLE A, identify fuse assignments for miscellaneous SD K block(s)

TABLE A

OPTION	K BLOCK	FRAME		FUSE																							
256 Pulse and 768 Relay Points	K4 (MDN 0) or K5 (MDN 1)	D&SM	DESIG	AA4	AB4	AC4	AD4	AA5	AB5	AC5	AD5	BA4	BB4	BC4	BD4	BA5	BB5	BC5	BD5	CA4	CB4	CC4	CD4	CA5	CB5	CC5	CD5
			LOCN	107/607-34								209/709-42								207/707-16							
		DA	DESIG	A40	A41	A42	B40	B41	B42	PPA0	PPA1	PPB0	PPB1														
			LOCN	007/507-33			007/507-39			007/507-05		007/507-14															
512 Pulse and 512 Relay Points	K4 (MDN 0) or K5 (MDN 1)	D&SM	DESIG	AA4	AB4	AC4	AD4	AA5	AB5	AC5	AD5	BA4	BB4	BC4	BD4	BA5	BB5	BC5	BD5	CA4	CB4	CC4	CD4	CA5	CB5	CC5	CD5
			LOCN	107/607-34								209/709-42								207/707-16							
		DA	DESIG	A40	A41	B40	B41	PPA0	PPA1	PPA2	PPA3	PPB0	PPB1	PPB2	PPB3												
			LOCN	007/507-33		007/507-39		007/507-05				007/507-14															

IDENTIFY FUSE ASSIGNMENTS FOR MISCELLANEOUS SD K BLOCK(S) AT D&SM AND DA FRAMES

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At Distributor and Scanner Matrix (D&SM) frame:
[1] Using TABLE A, identify fuse assignments for universal scan K block(s)

TABLE A

FRAME	K BLOCK	FUSE															
LEFT D&SM	K0 (TSN 0)	DESIGNATION	5A0	5B0	5C0	5D0	5A1	5B1	5C1	5D1	SA0	SB0	SC0	SD0	SA1	SB1	SC1	SD1
		LOCATION	107-04								207-30							
	K2 (TSN 2)	DESIGNATION	5A2	5B2	5C2	5D2	5A3	5B3	5C3	5D3	SA2	SB2	SC2	SD2	SA3	SB3	SC3	SD3
		LOCATION	107-10								207-36							
RIGHT D&SM	K1 (TSN 1)	DESIGNATION	5A0	5B0	5C0	5D0	5A1	5B1	5C1	5D1	SA0	SB0	SC0	SD0	SA1	SB1	SC1	SD1
		LOCATION	607-04								707-30							
	K3 (TSN 3)	DESIGNATION	5A2	5B2	5C2	5D2	5A3	5B3	5C3	5D3	SA2	SB2	SC2	SD2	SA3	SD3	SC3	SD3
		LOCATION	607-10								707-36							

IDENTIFY FUSE ASSIGNMENTS FOR UNIVERSAL SCAN K BLOCK(S) AT D&SM FRAME

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At Distributor and Scanner Matrix (D&SM) frame:
[1] Using TABLE A, identify fuse assignments for universal and/or miscellaneous scan K block(s)

TABLE A

FRAME	K BLOCK		FUSE															
LEFT D&SM	K0 (TSN 0)	DESIGNATION	5A0	5B0	5C0	5D0	5A1	5B1	5C1	5D1	SA0	SB0	SC0	SD0	SA1	SB1	SC1	SD1
		LOCATION	107-04								207-30							
	K2 (TSN 2)	DESIGNATION	5A2	5B2	5C2	5D2	5A3	5B3	5C3	5D3	SA2	SB2	SC2	SD2	SA3	SB3	SC3	SD3
		LOCATION	107-10								207-36							
	K4 (MSN 0)	DESIGNATION	5A4	5B4	5C4	5D4	5A5	5B5	5C5	5D5	SA4	SB4	SC4	SD4	SA5	SB5	SC5	SD5
		LOCATION	107-16								207-42							
RIGHT D&SM	K1 (TSN 1)	DESIGNATION	5A0	5B0	5C0	5D0	5A1	5B1	5C1	5D1	SA0	SB0	SC0	SD0	SA1	SB1	SC1	SD1
		LOCATION	607-04								707-30							
	K3 (TSN 3)	DESIGNATION	5A2	5B2	5C2	5D2	5A3	5B3	5C3	5D3	SA2	SB2	SC2	SD2	SA3	SB3	SC3	SD3
		LOCATION	607-10								707-36							
	K5 (MSN 1)	DESIGNATION	5A4	5B4	5C4	5D4	5A5	5B5	5C5	5D5	SA4	SB4	SC4	SD4	SA5	SB5	SC5	SD5
		LOCATION	607-16								707-42							

IDENTIFY FUSE ASSIGNMENTS FOR UNIVERSAL AND/OR MISCELLANEOUS SCAN K BLOCKS AT D&SM FRAME

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At Distributor and Scanner Matrix (D&SM) and/or Distributor Applique (DA) Frame(s)

[1] Using TABLE A, identify fuse assignments for universal and/or miscellaneous SD K blocks

TABLE A

K BLOCK	FRAME		FUSE																							
K0 (TDN 0) or K1 (TDN 1)	D&SM	DESIG	AA0	AB0	AC0	AD0	AA1	AB1	AC1	AD1	BA0	BB0	BC0	BD0	BA1	BB1	BC1	BD1	CA0	CB0	CC0	CD0	CA1	CB1	CC1	CD1
		LOCN	107/607-22								209/709-30								207/707-04							
	DA	DESIG	A00	A01	A02	A03	B00	B01	B02	B03																
		LOCN	007/507-27				007/507-33																			
K2 (TDN 2) or K3 (TDN 3)	D&SM	DESIG	AA2	AB2	AC2	AD2	AA3	AB3	AC3	AD3	BA2	BB2	BC2	BD2	BA3	BB3	BC3	BD3	CA2	CB2	CC2	CD2	CA3	CB3	CC3	CD3
		LOCN	107/607-28								209/709-36								207/707-10							
	DA	DESIG	A20	A21	A22	A23	B20	B21	B22	B23																
		LOCN	007/507-27				007/507-39																			
K4 (MDN 0) or K5 (MDN 1)	D&SM	DESIG	AA4	AB4	AC4	AD4	AA5	AB5	AC5	AD5	BA4	BB4	BC4	BD4	BA5	BB5	BC5	BD5	CA4	CB4	CC4	CD4	CA5	CB5	CC5	CD5
		LOCN	107/607-34								209/709-42								207/707-16							
	DA	DESIG	A40	A41	A42	A43	B40	B41	B42	B43																
		LOCN	007/507-33				007/507-39																			

IDENTIFY FUSE ASSIGNMENTS FOR UNIVERSAL AND/OR MISCELLANEOUS SD K BLOCK(S) AT D&SM AND DA FRAMES

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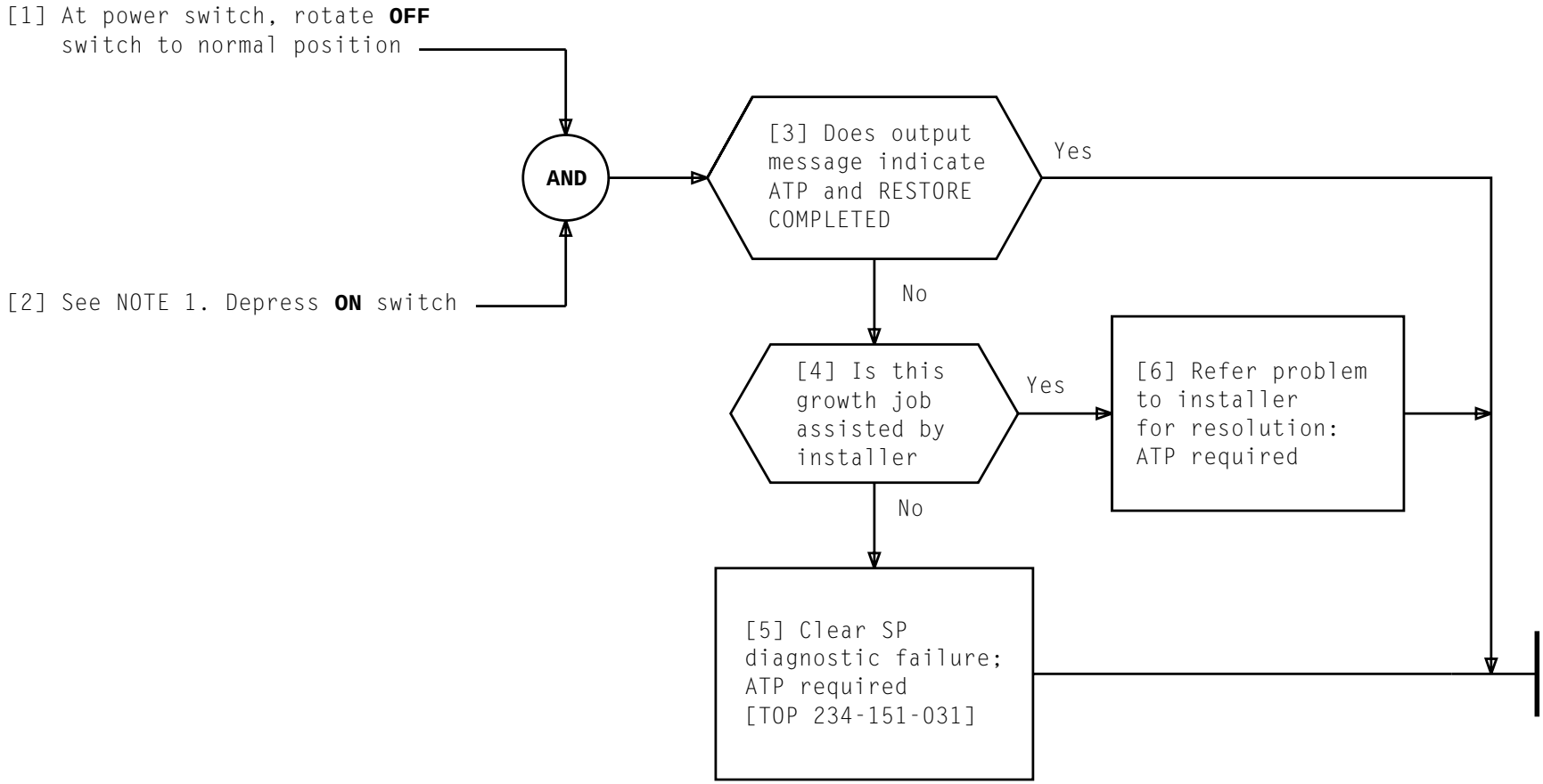

NOTE 1
Operation of **ON** switch will cause diagnostic to be run

RESTORE PULSE POINT POWER WITH POWER SWITCH

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SUMMARY

Using verify entry input message, call up growth associated SP1 UT translator and verify that resulting TTY octal output data, when converted, agrees with office records. Refer to entry word explanations of TABLE B, Page 3 as required, for assistance in interpreting specific data fields. If output data and office records do not agree, perform appropriate corrective action as determined by TELCO engineering/regional engineering and approved by office supervisor.

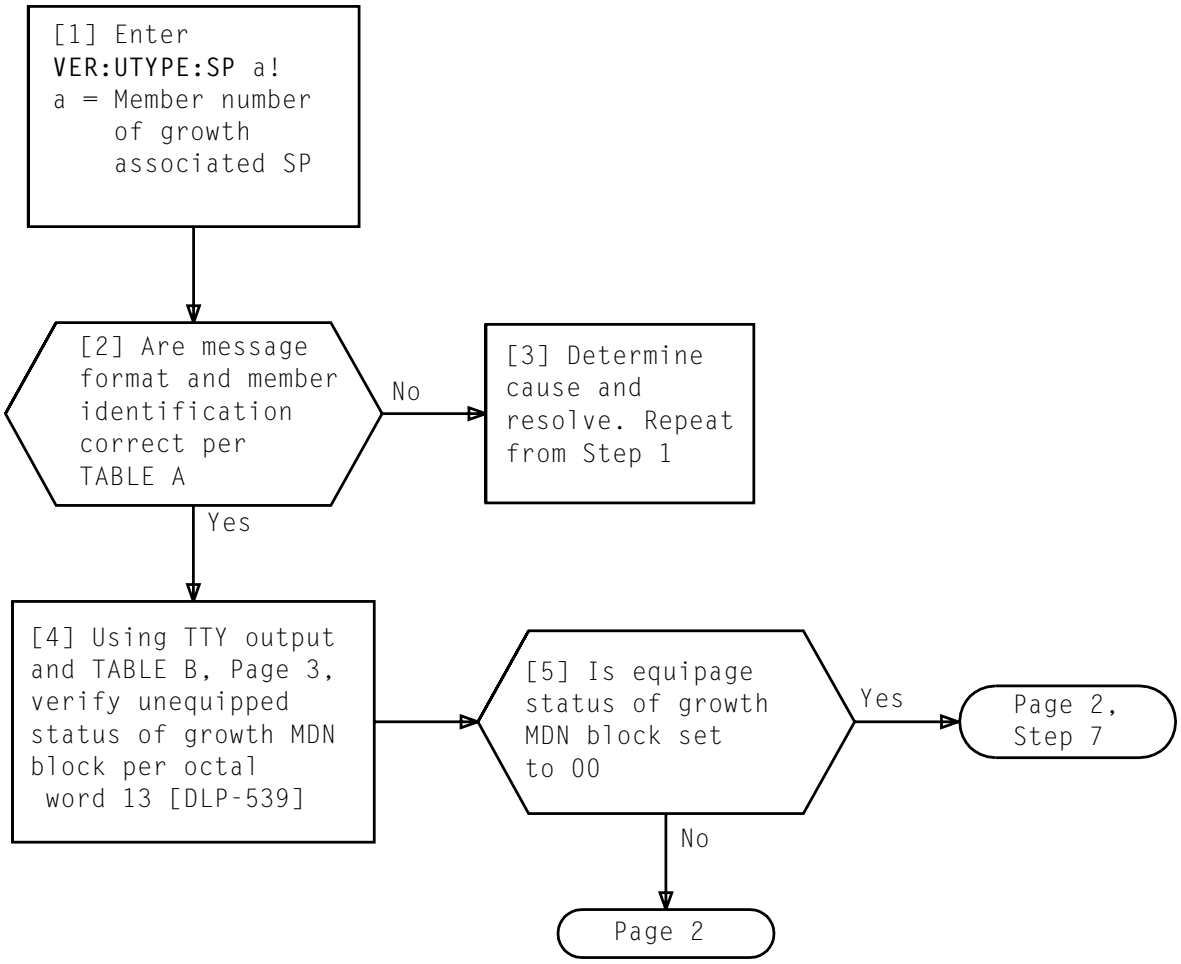

TABLE A

```
VER:UTMN;OPT(),CUR:  FLN a,      UTYN SP,

MEMN b,        ME OPER,
ENTRY ADDRESS c,           ENTRY SIZE 16,

CUR
WORD 0  ____ ____ ____ ____
        ____ ____ ____ ____
WORD 10 ____ ____ ____ ____
        ____ ____ ____ ____
```

a = Floor location number
b = Member number of growth associated SP
c = Starting octal address for unit type entry

VERIFY MISCELLANEOUS SD DATA OF SP1 UT TRANSLATOR

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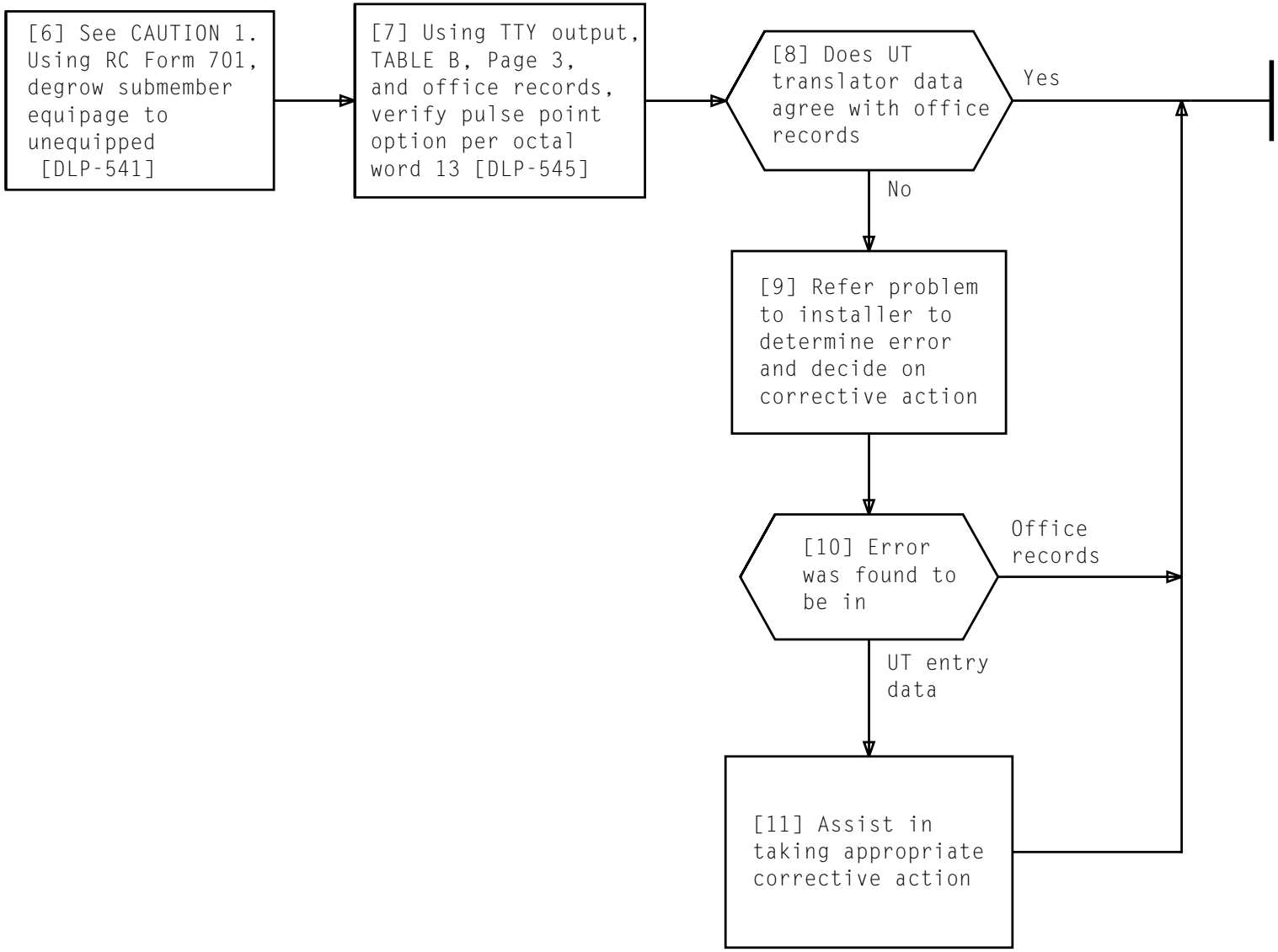

CAUTION 1
Depending on local procedures, supervisory or TELCO engineering approval must be obtained prior to performing any data changes

VERIFY MISCELLANEOUS SD DATA OF SP1 UT TRANSLATOR

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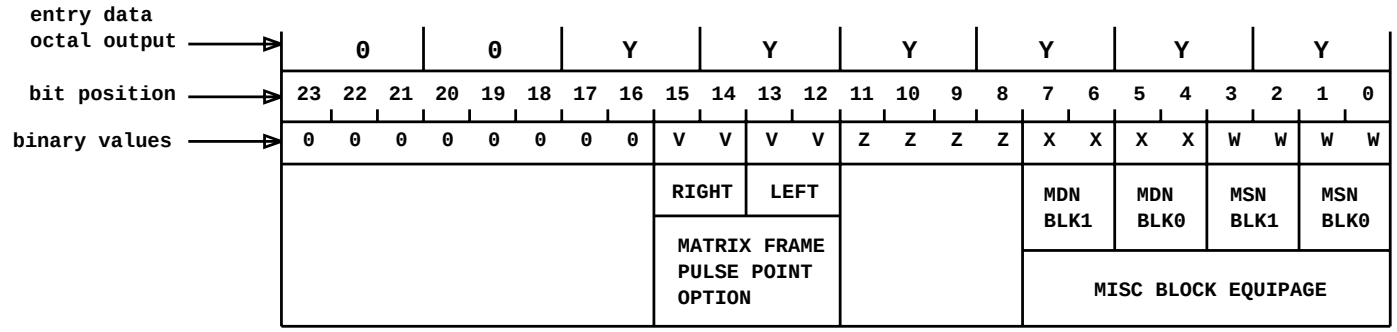
TABLE B

ENTRY WORD (OCTAL)	UT ENTRY DATA AND WORD CONFIGURATION
13	

VV = 2-digit code corresponding to pulse point option as reflected in office record drawing T-nnnn-Hn-3870 or equivalent
= 00 = no pulse points
= 01 = 256 pulse points
= 10 = 512 pulse points
= 11 = invalid

XX = 2-digit code giving growth status of MDN blocks
= 00 = unequipped
= 11 = operational

Y...Y = Variable octal numbers

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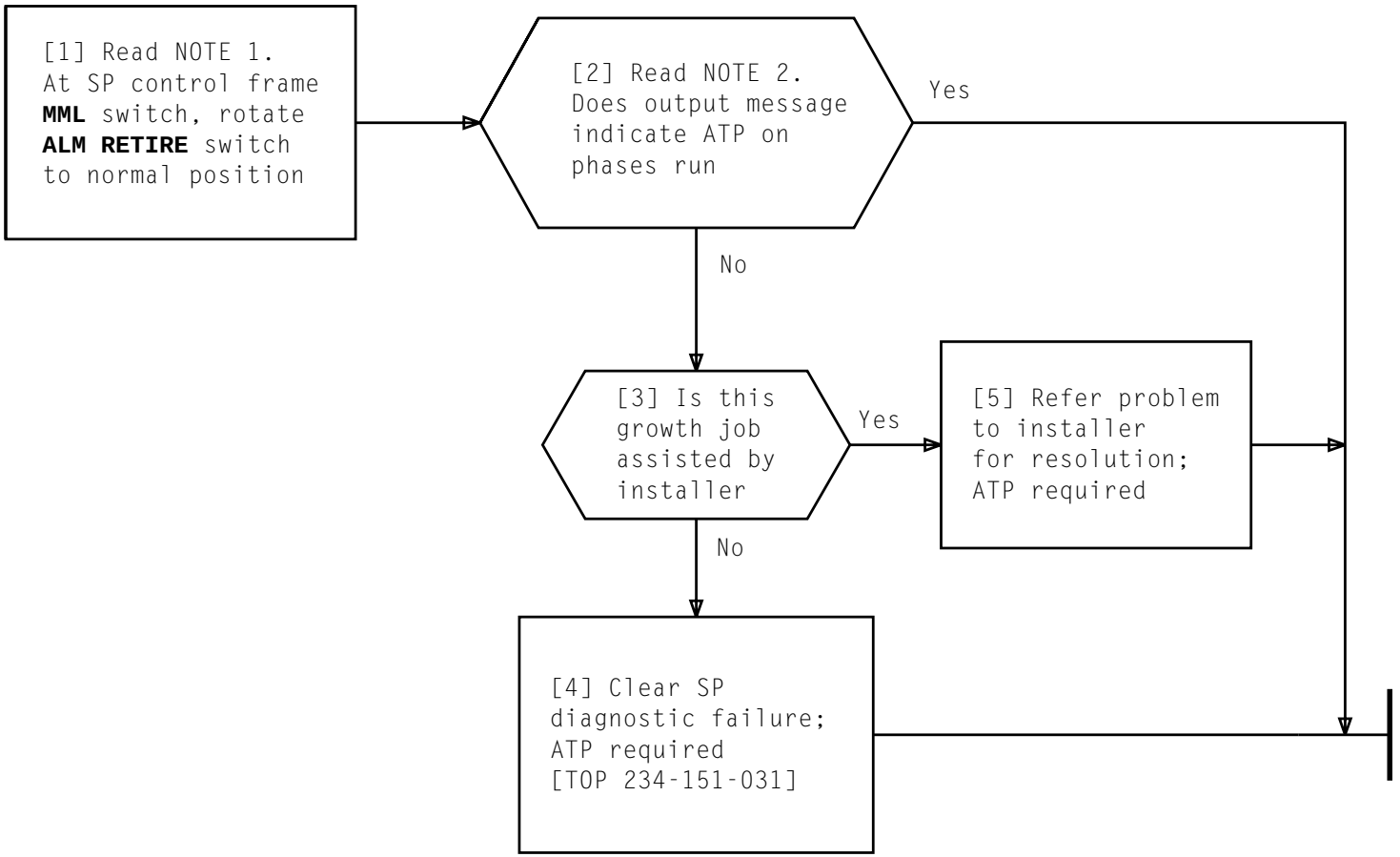

NOTES

1. When **MML** switch is placed in normal position, **ACK** and **MTCE LIMIT** lamps are lighted and **OFF NORM** lamp is off. An automatic diagnostic will occur on SP
2. If diagnostics indicate ATP, **ACK** and **MTCE LIMIT** lamps will go off. If diagnostic fails, **MTCE LIMIT** lamp will remain lighted and **ACK** lamp will go off

ENABLE MML SWITCH

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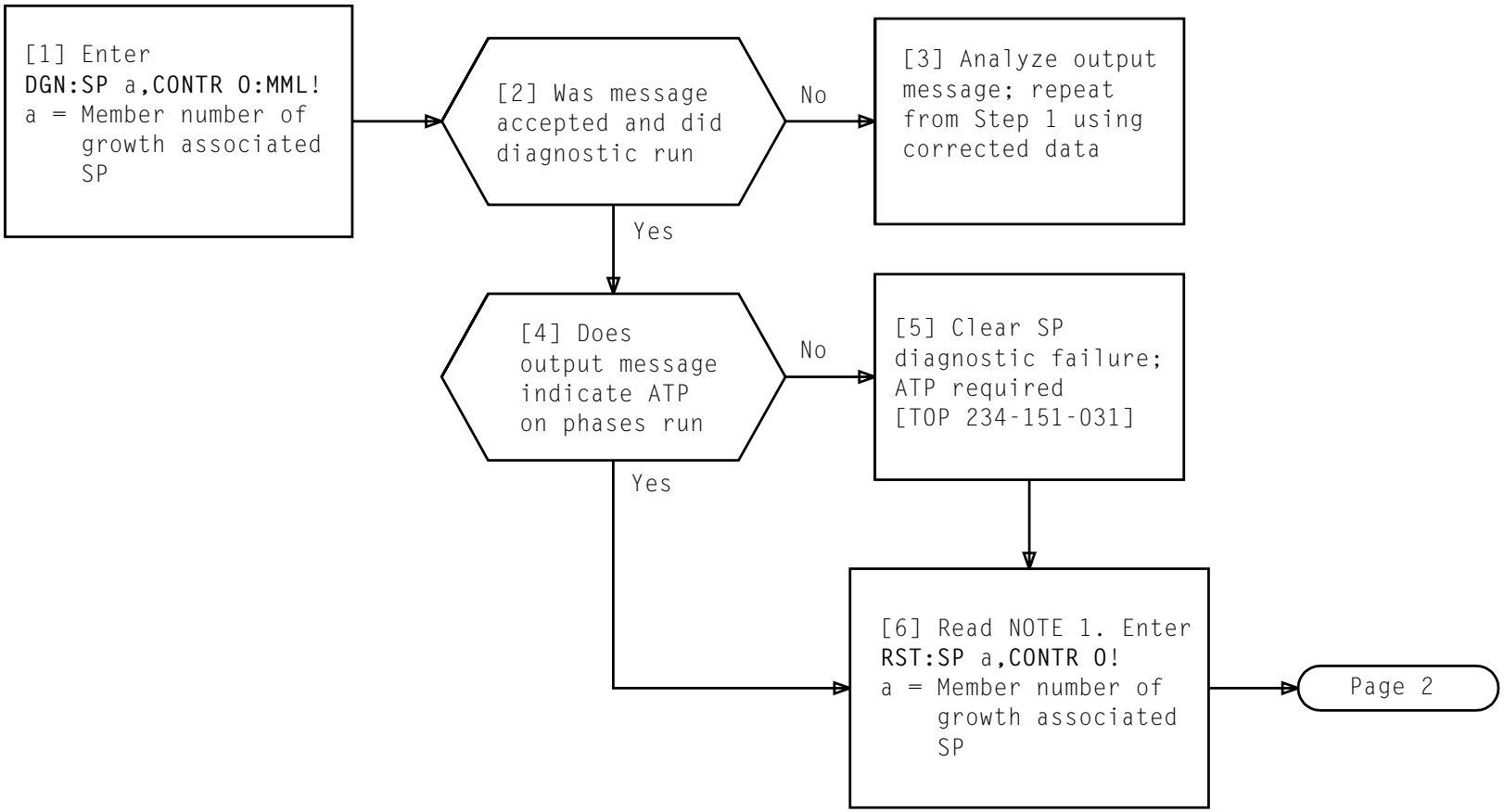

NOTE 1
Restore input message will cause diagnostic to be run and controller to be restored, if ATP

DIAGNOSE OPERATIONAL SP FRAME CONTROLLERS AND MATRIX EQUIPMENT

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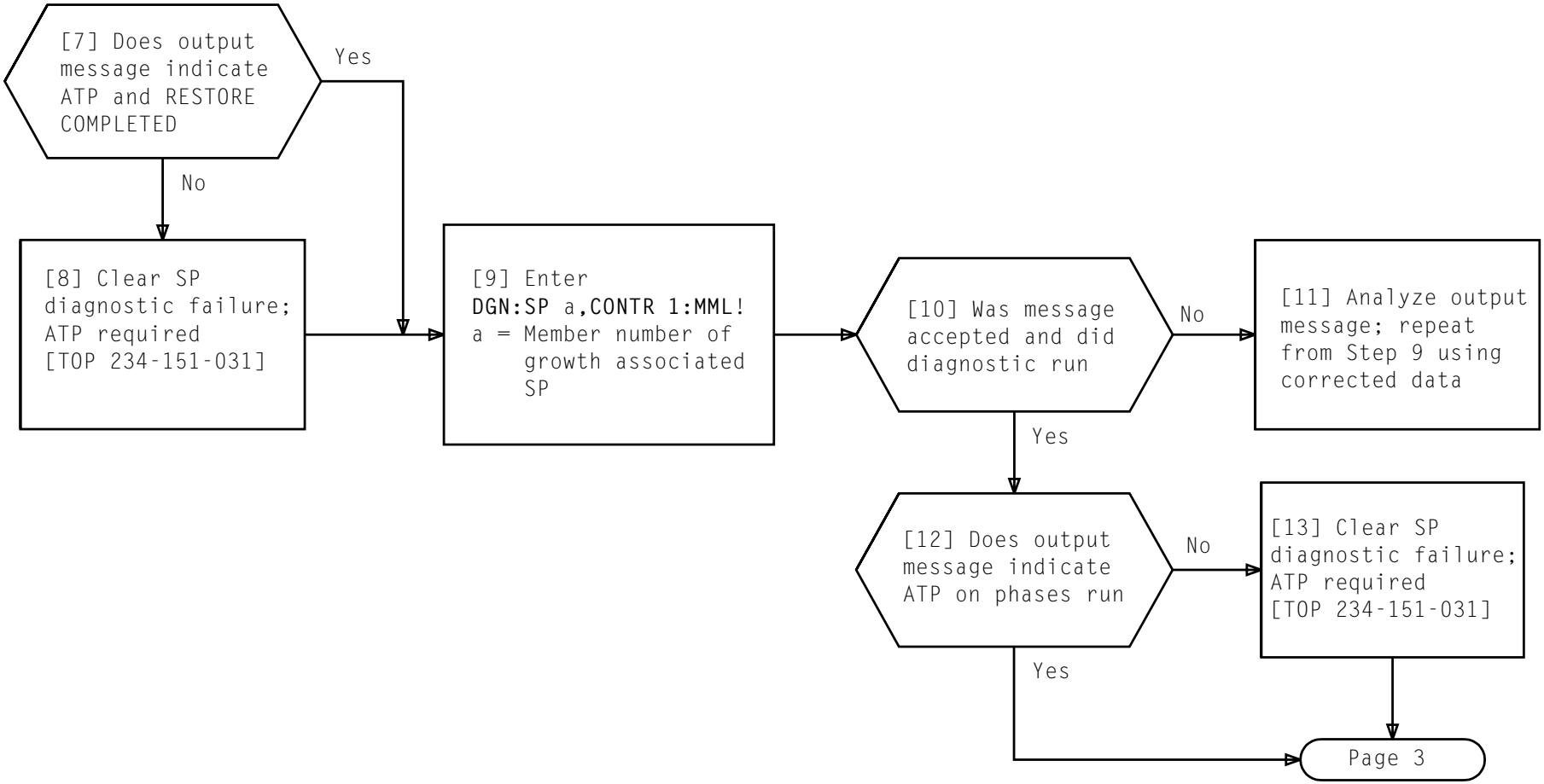

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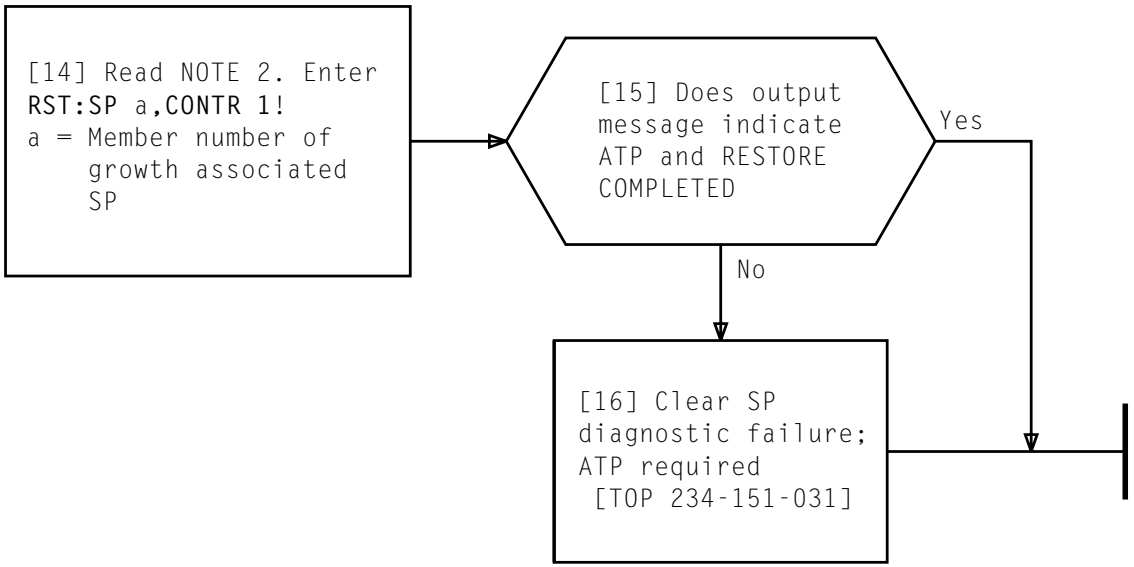

NOTE 2
Restore input message will cause diagnostic to be run and controller to be restored, if ATP

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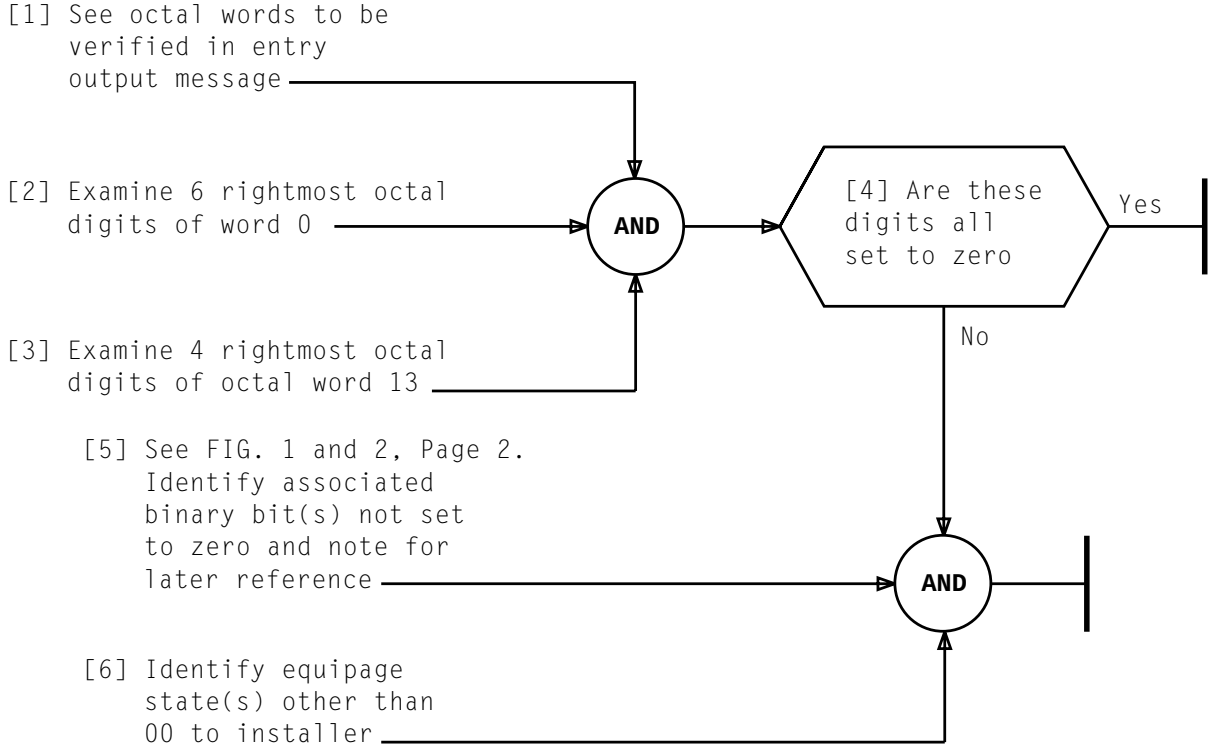
SUMMARY

Verify from entry output message, words 0 and 13, that SP 1 member and submember equipage bits are set to zero. Note any discrepancies for later reference.



VERIFY UNEQUIPPED STATUS OF GROWTH SP 1 MEMBER AND SUBMEMBERS

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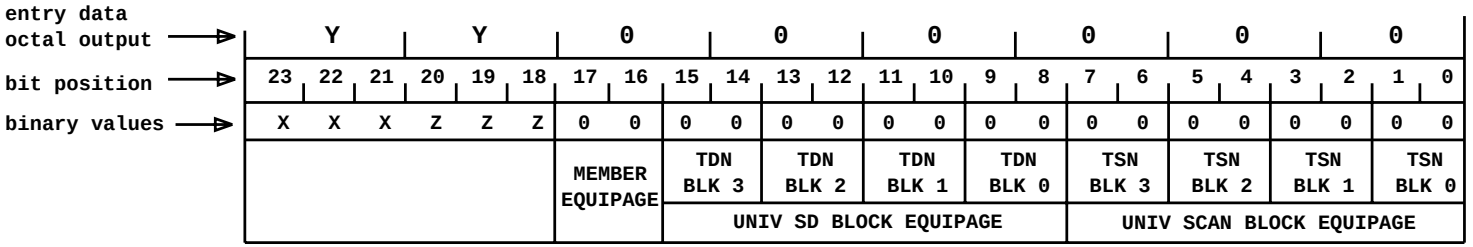

FIG. 1 — Entry Word 0 Layout

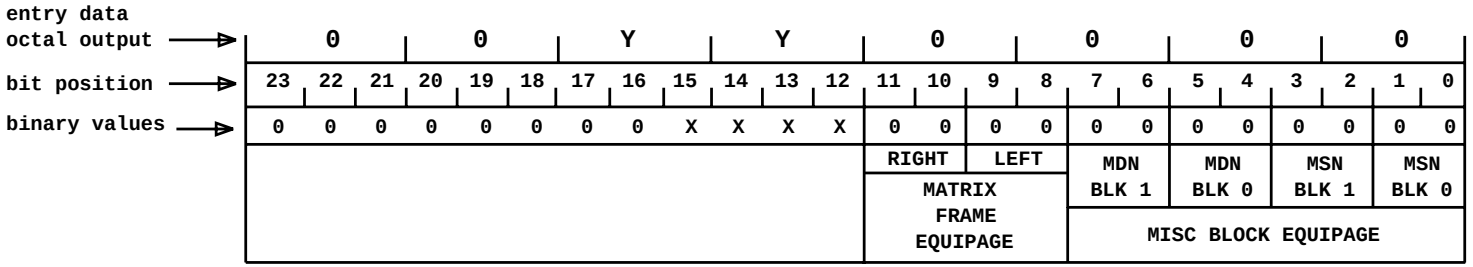

FIG. 2 — Entry Word 13 Layout

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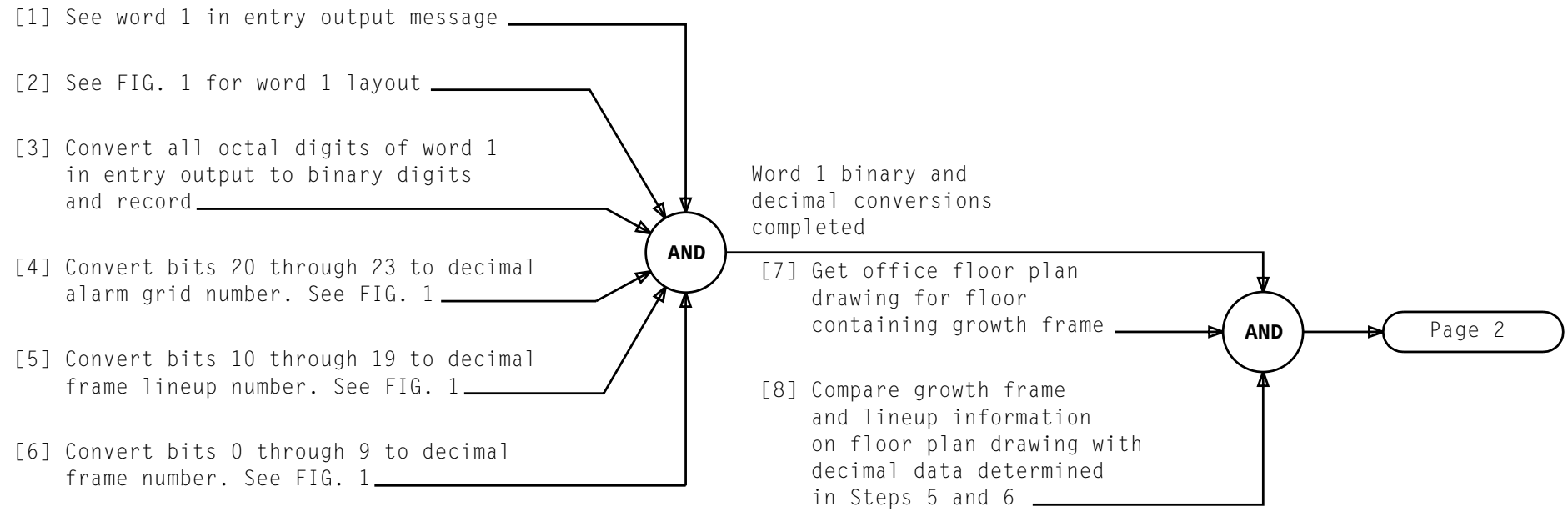
SUMMARY

Convert octal digits of entry output data word 1 to binary. Determine decimal number of grid, lineup and frame using FIG. 1. Compare calculated data with office records and floor plan drawing as required. If UT data does not agree with office records, record discrepancies for later reference.



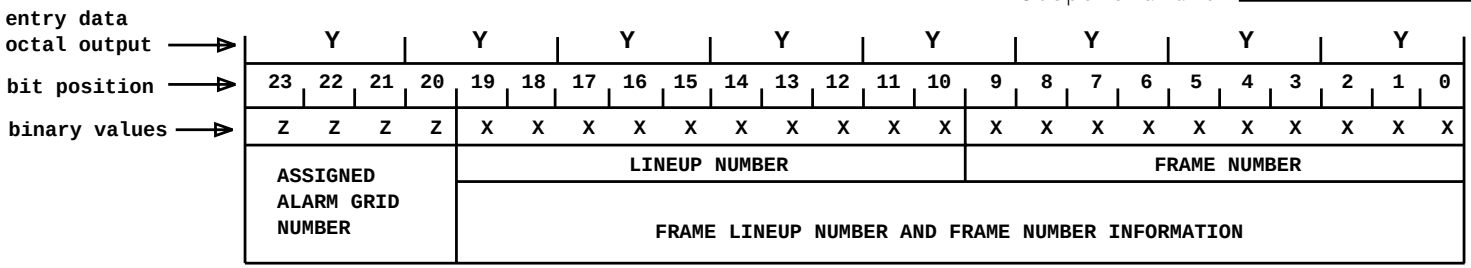


FIG. 1 — Entry Data Word 1 Layout

VERIFY ALARM GRID, LINEUP AND FRAME ASSIGNMENT FOR GROWTH FRAME

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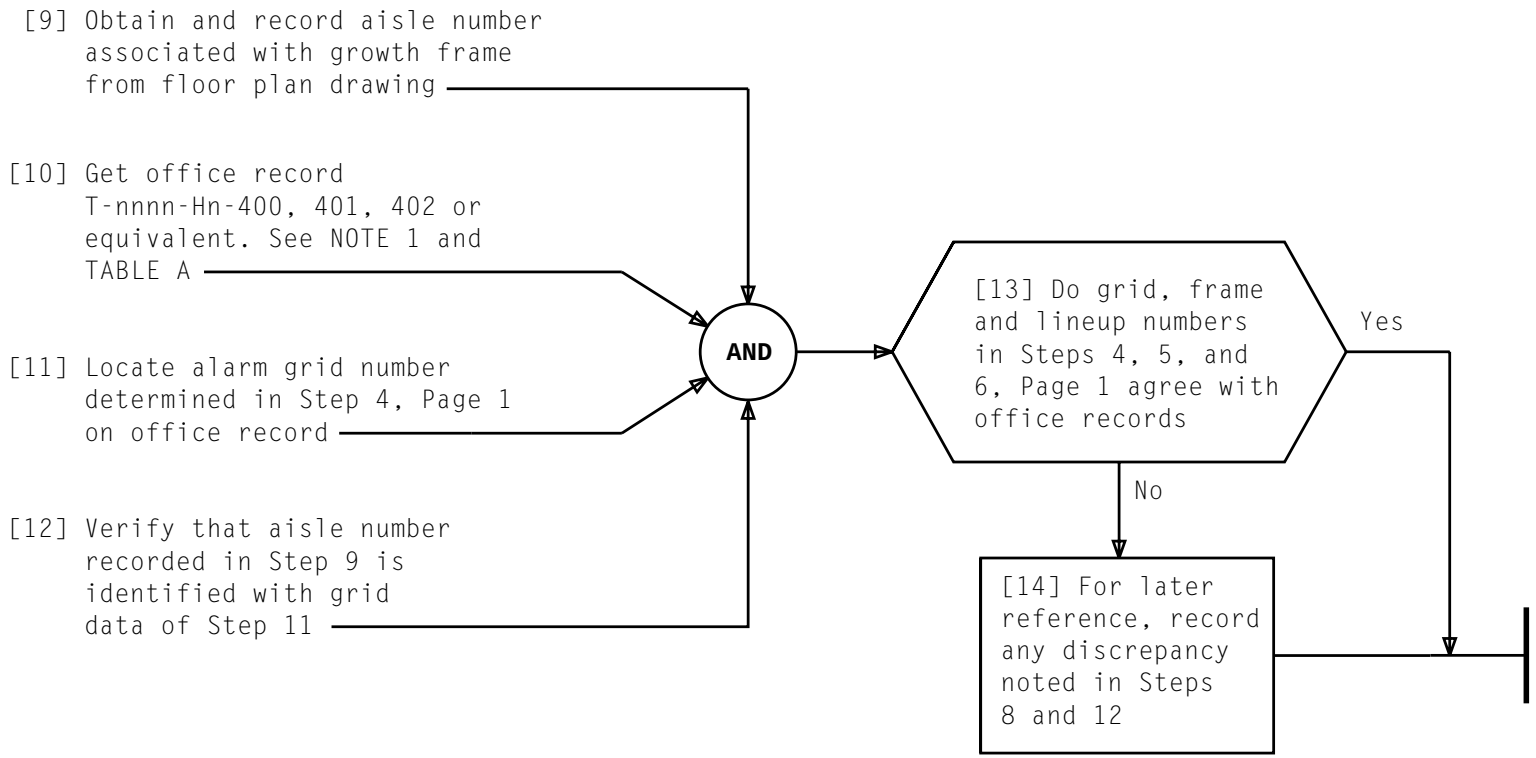

TABLE A	
ALARM GRIDS	**DRAWING NUMBER**
1 through 5	T-nnnn-Hn-400
6 through 10	T-nnnn-Hn-401
11 through 15	T-nnnn-Hn-402

NOTE 1
n = Office unique drawing identification number

VERIFY ALARM GRID, LINEUP AND FRAME ASSIGNMENT FOR GROWTH FRAME

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[1] Note word in output message containing SD or pulse point to be verified

[2] Convert 6 rightmost digits of word to be verified to decimal SP member, row, and column numbers using FIG. 1. Record results

[3] Get office record T-nnnn-Hn-462-xx or equivalent. xx = SP member number determined in Step 2

AND

[4] Fourth rightmost octal digit of word to be verified is

0 or 1 → Page 2

2 or 3

[5] Add 64 decimal to SP row number determined in Step 2. Record new result

AND → Page 2, Step 8

[6] Search ROW and COL listing in office record and locate row and column previously recorded

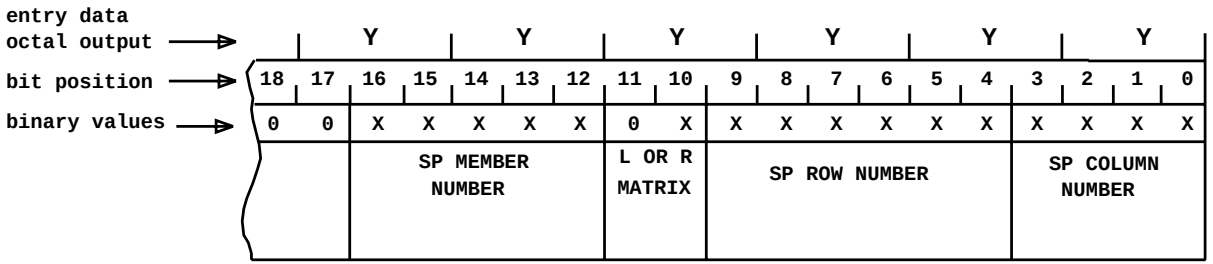

FIG. 1 — Entry Data Word Layout

VERIFY SD OR PULSE POINT ASSIGNMENTS FOR GROWTH FRAME

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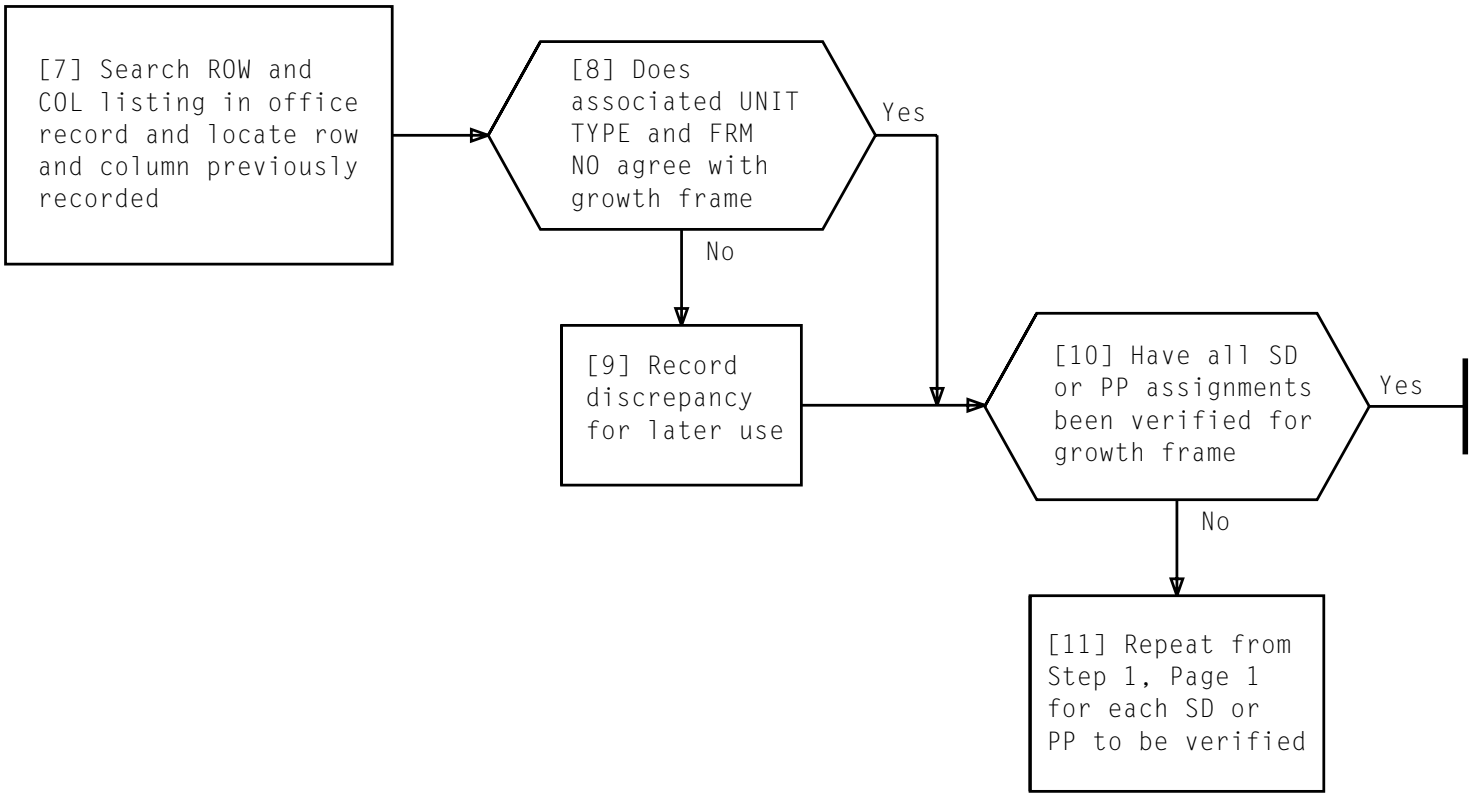

VERIFY SD OR PULSE POINT ASSIGNMENTS FOR GROWTH FRAME

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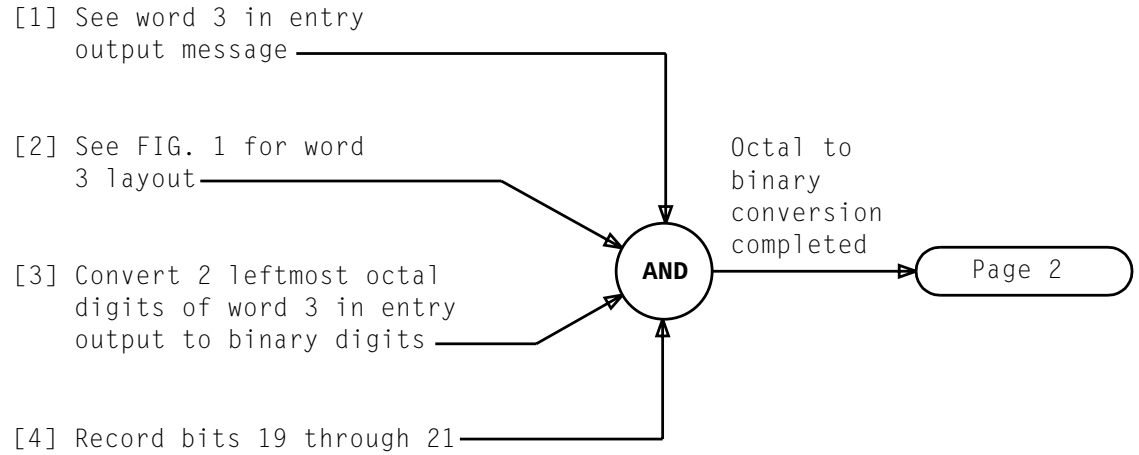
SUMMARY	
Convert 2 leftmost octal digits of entry output data word 3 to binary. Determine PUB branch binary code for growth	frame from TABLE A, Page 2 and office record T—nnnn—Hn—3840 or equivalent.If binary code does not agree with UT entry data, record discrepancy for later reference.



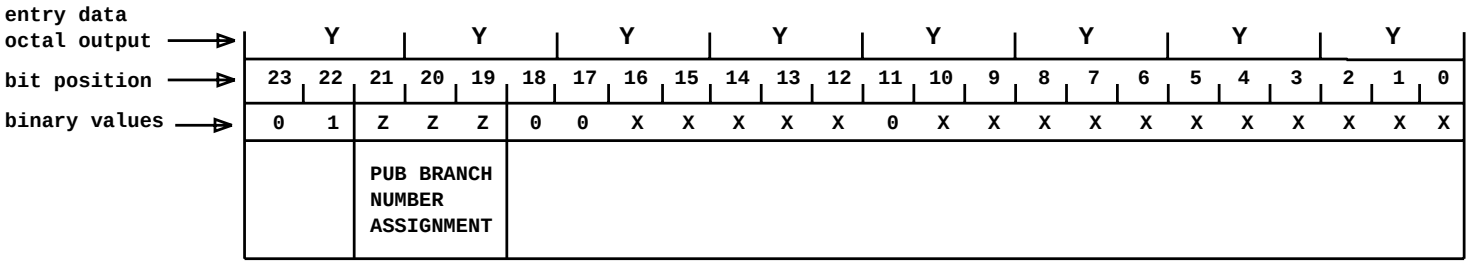


FIG. 1 — Entry Data Word 3 Layout

VERIFY PUB BRANCH ASSIGNMENT FOR GROWTH FRAME

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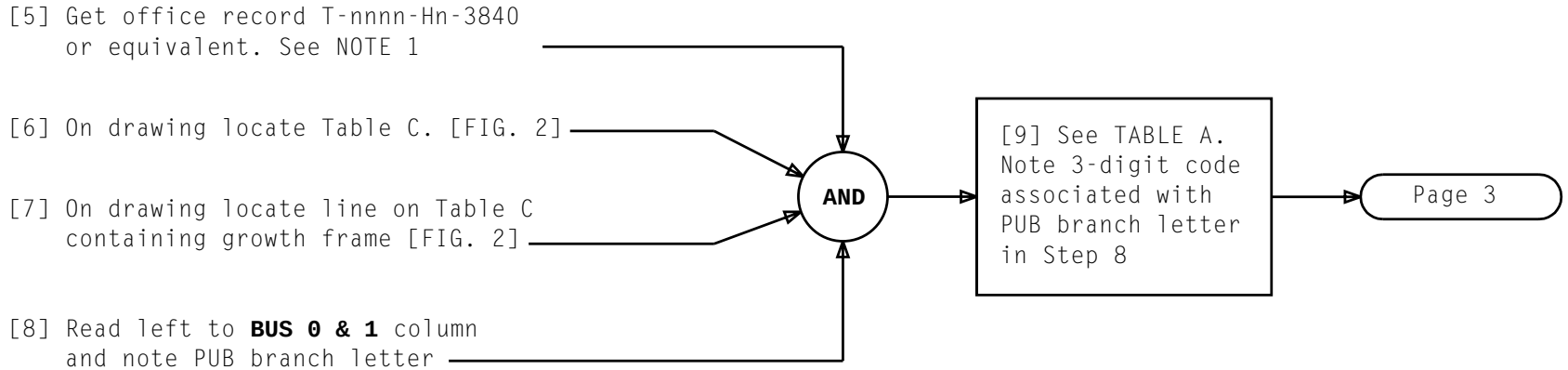

TABLE C

LINE NO.	BUS 0&1	FROM	THROUGH	TO	TOTAL LENGTH	TOTAL LOAD	NOTE OR TABLE
1	A	PUBB		1/0 1		1	
2	B	PUBB	TS1 00,01,02,03,04,05,06,13,12,11,10,09,08,07,	TS1 28		44	1
3	C	PUBB	VIF 020,019;SP 03;VIF 018,017,016,014,015;SP	VIF 013		12	2
4	D	PUBB	VIF 010,009; VIF 008,007,006,004,005;	VIF 003		13	2
5	E	PUBB		TG1935.1		1	
6	F	PUBB	SP II 7,8,9,10	SPII 11		6	
7	G	PUBB	SP 01	SP 00		2	
8	H	PUBB	SP 2,12,13	SP 2 14		4	
9	K	PUBB	VIF 023,022,021,SP 04,VIF 025	VIF 024		6	2
10	L	PUBB					
11	M	PUBB					
12	R	PUBB					
13	T	PUBB					
14	V	PUBB					
15	W	PUBB					
16	X	PUBB					
LNN	BS	FROM		TO	TO LG	TO LD	NTTB

FIG. 2 — Typical Table C of 3840 Drawing

TABLE A	
PUB BRANCH LETTER	**3-DIGIT CODE**
A and B	000
C and D	001
E and F	010
G and H	011
K and L	100
M and R	101
T and V	110
W and X	111

NOTE 1
n = Office Unique drawing identification numbers

VERIFY PUB BRANCH ASSIGNMENT FOR GROWTH FRAME

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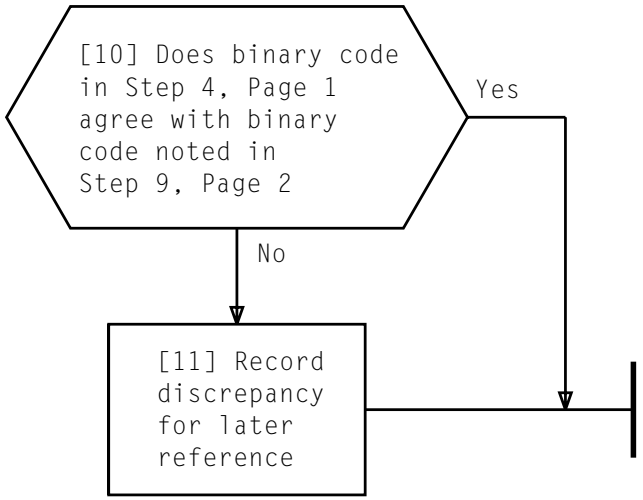

VERIFY PUB BRANCH ASSIGNMENT FOR GROWTH FRAME

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[1] Note word in output message containing scan point to be verified

[2] Convert 6 rightmost digits of word to be verified to decimal SP member, row, and column numbers using FIG. 1. Record results

[3] Get office record T-nnnn-Hn-461-xx or equivalent. xx = SP member number determined in Step 2

AND

[4] Fourth right-most octal digit of word to be verified is

0 or 1 → Page 2

2 or 3

[5] Add 64 decimal to SP row number determined in Step 2. Record new result

AND → Page 2, Step 8

[6] Search ROW and COL listing in office record and locate row and column previously recorded

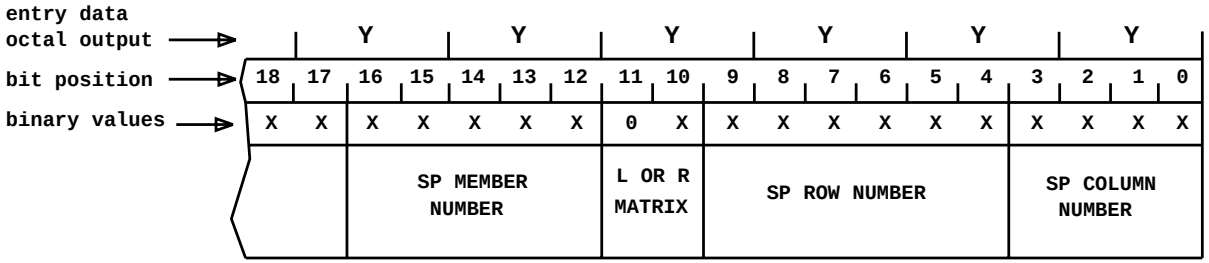

FIG. 1 — Entry Data Word Layout

VERIFY SCAN POINT ASSIGNMENT(S) FOR GROWTH FRAME

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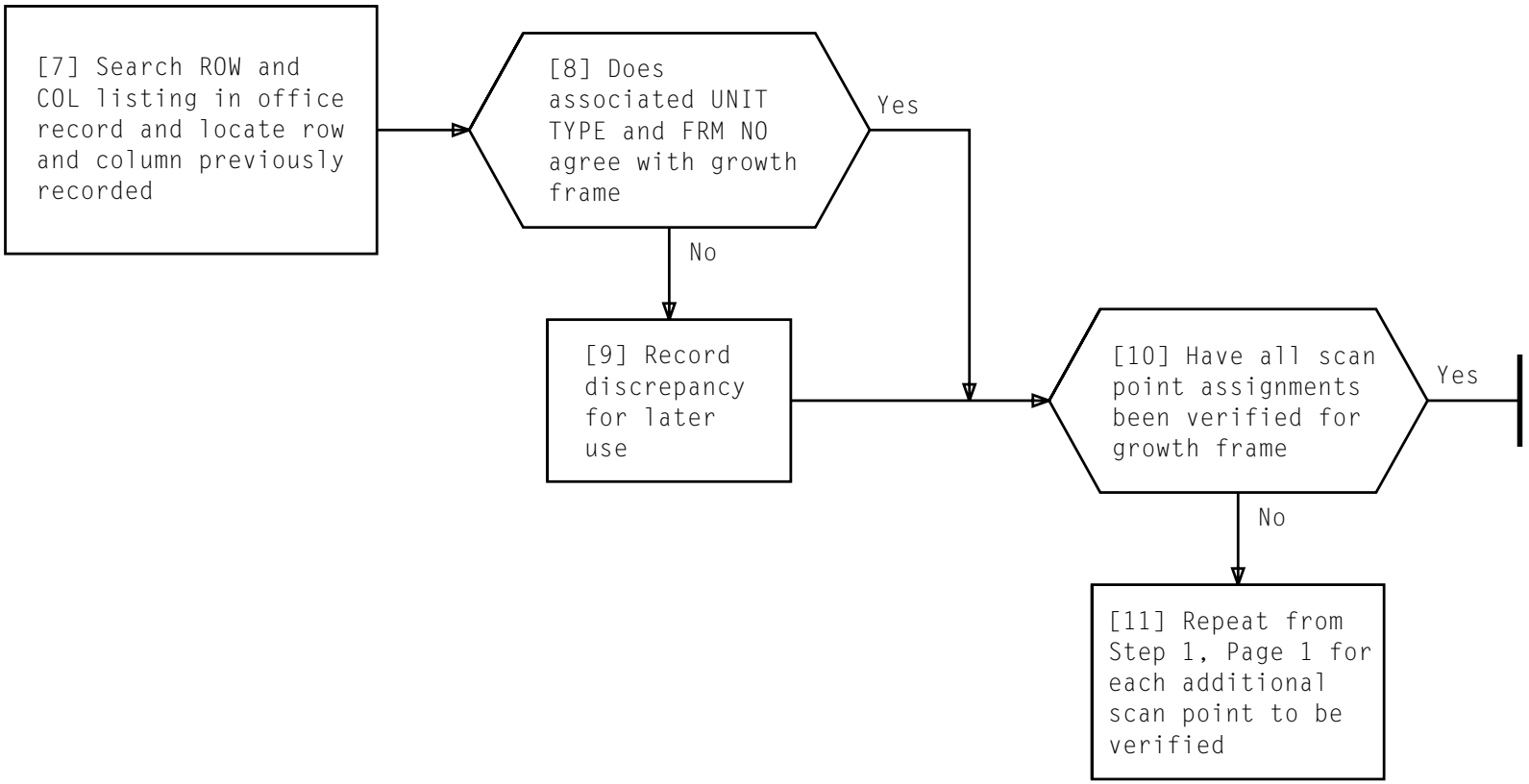

VERIFY SCAN POINT ASSIGNMENT(S) FOR GROWTH FRAME

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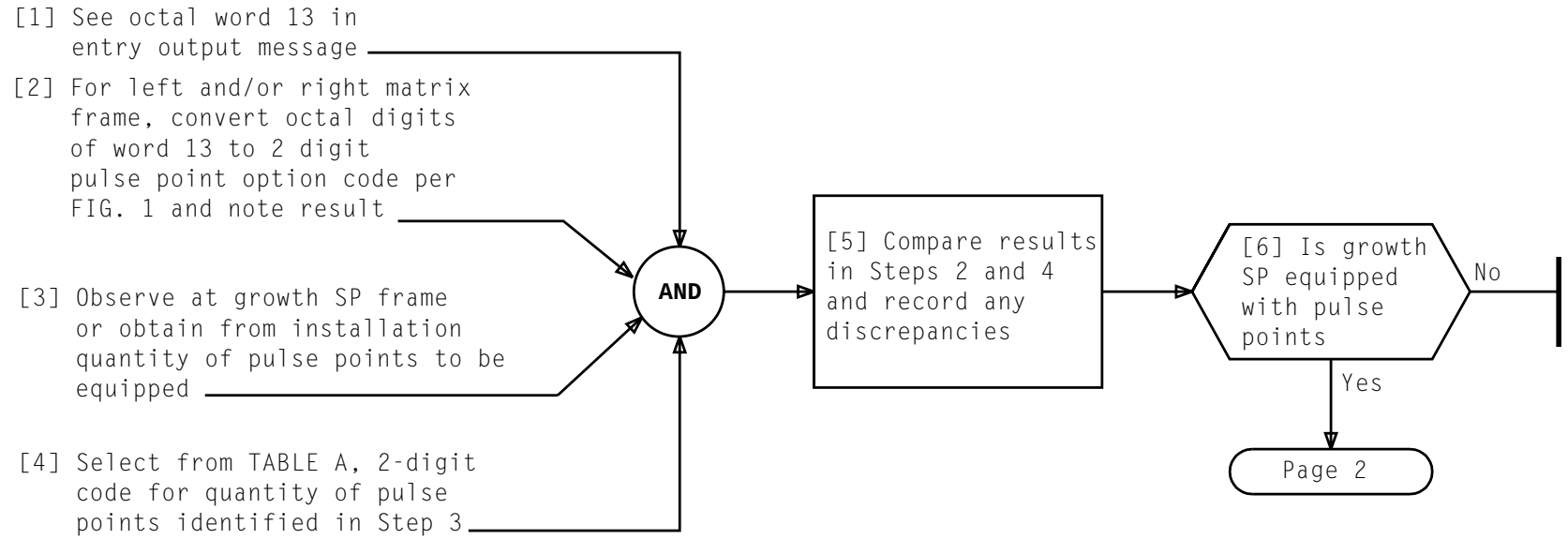
SUMMARY

Convert octal digits representing pulse point option of entry output word to binary. Determine actual growth frame pulse point equipage and compare actual equipage with entry output data using TABLE A. Record any discrepancy. If growth frame is equipped with pulse points, verify associated SP member number and record discrepancy if entry output data is in error.



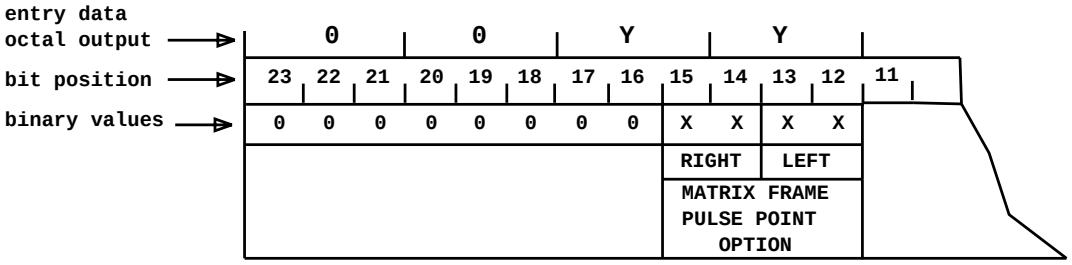


FIG. 1 — Partial Entry Data Word 13 Layout

TABLE A	
2-DIGIT CODE	**POINT OPTION**
00	No pulse points
01	256 pulse points
10	512 pulse points
11	Invalid

VERIFY GROWTH SP PULSE POINT OPTION AND PULSE POINT DUPLICATE SP

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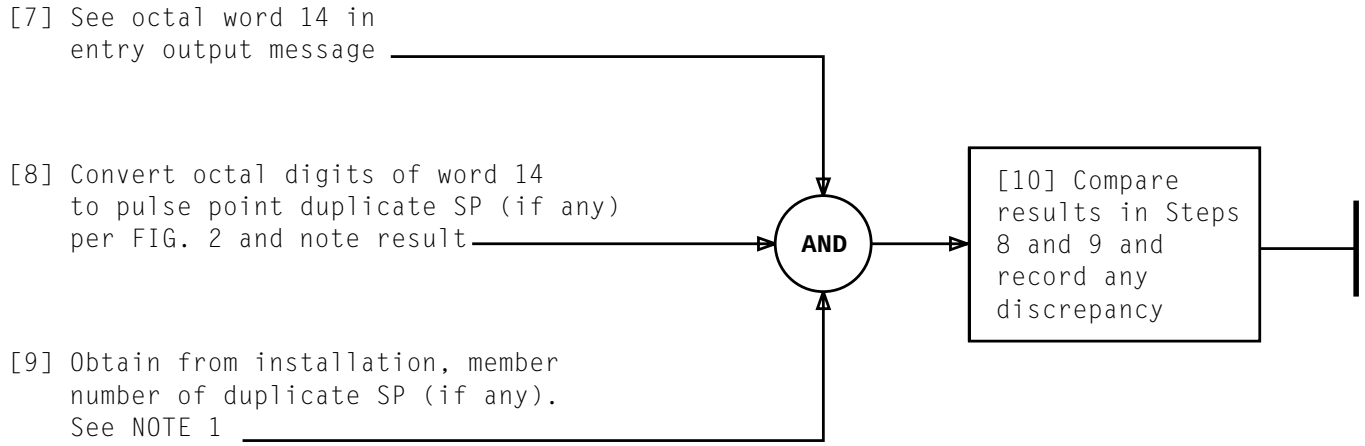

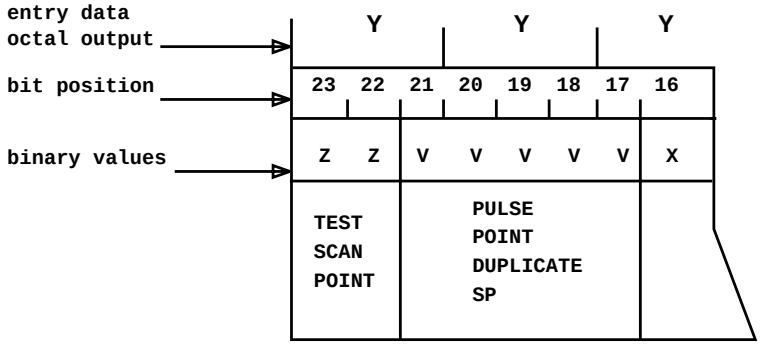

FIG. 2 — Partial Entry Data Word 14 Layout

NOTE 1

If growth SP has pulse point option specified and will not be mated to an operational SP or another SP being added on this growth addition the duplicate member number data will be set to 31

VERIFY GROWTH SP PULSE POINT OPTION AND PULSE POINT DUPLICATE SP

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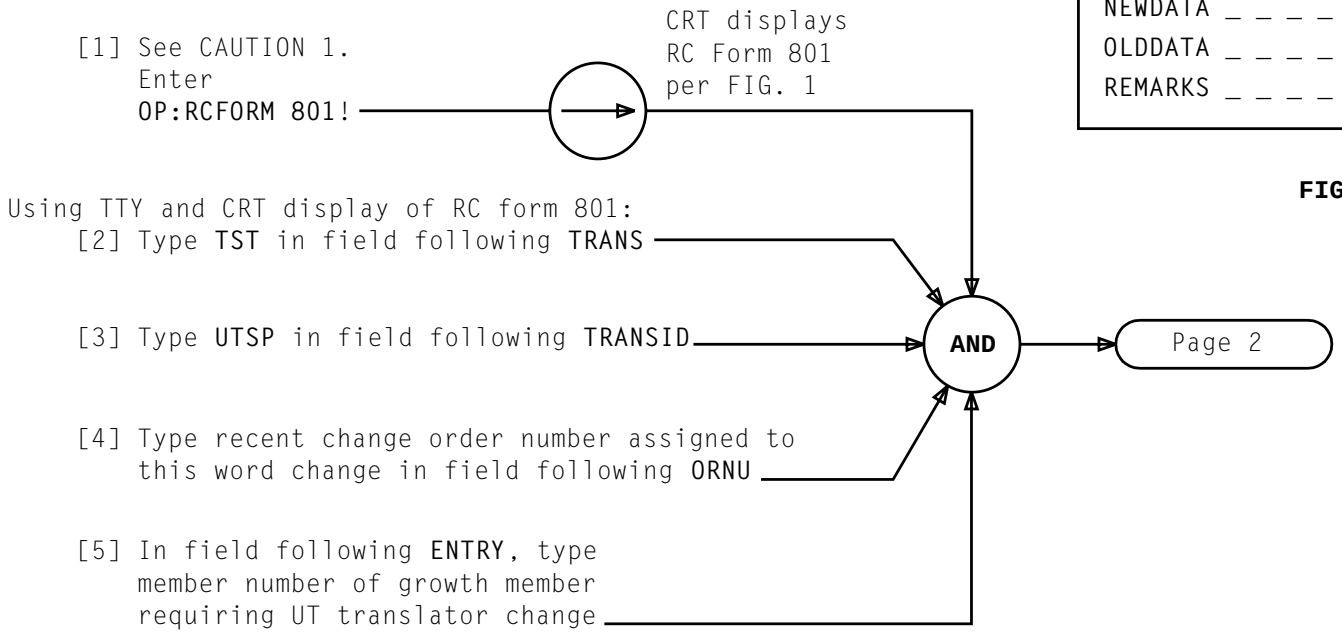
SUMMARY

Call up RC Form 801 on CRT. Using TTY, fill in blank fields on form to identify and to correct selected digit(s) within selected word of UT translator. Enter message, then verify translations. Using assigned order number, activate recent change, then verify current translations.

```
RC:FUNC;CHG;OPT(TRANS),_ _ _:      TRANSID _ _ _ _,
ORNU _ _ _ _ _ _ _ _,
ENTRY _ _ _ _ _ _ _ _, WORDNO _ _ _ _,
SIZE _ _,           DISP _ _ _,
BINOCT _ _,
NEWDATA _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _,
OLDDATA _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _,
REMARKS _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _!
```

FIG. 1 — Blank RC Form 801



CAUTION 1
Calling up RC form will cause all CRT data to be cleared

PERFORM FUNCTIONAL WORD CHANGE TO CORRECT UT TRANSLATOR WORD THEN VERIFY

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Using TTY and CRT display of RC Form 801:

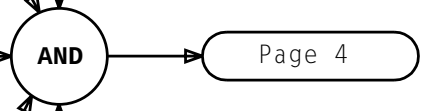
[6] In field following **WORDNO**, type decimal number of UT translator word to be changed

[7] Determine quantity of consecutive bits which span all bits requiring change in this UT translator word

[8] In field following **SIZE**, type decimal number of bits determined in Step 7. See example in FIG. 2, Page 3

[9] Determine bit position number (range of 0 to 23) identifying rightmost of consecutive bits determined in Step 7

[10] In field following **DISP**, type decimal number determined in Step 9. See example in FIG. 2



Page 4

PERFORM FUNCTIONAL WORD CHANGE TO CORRECT UT TRANSLATOR WORD THEN VERIFY

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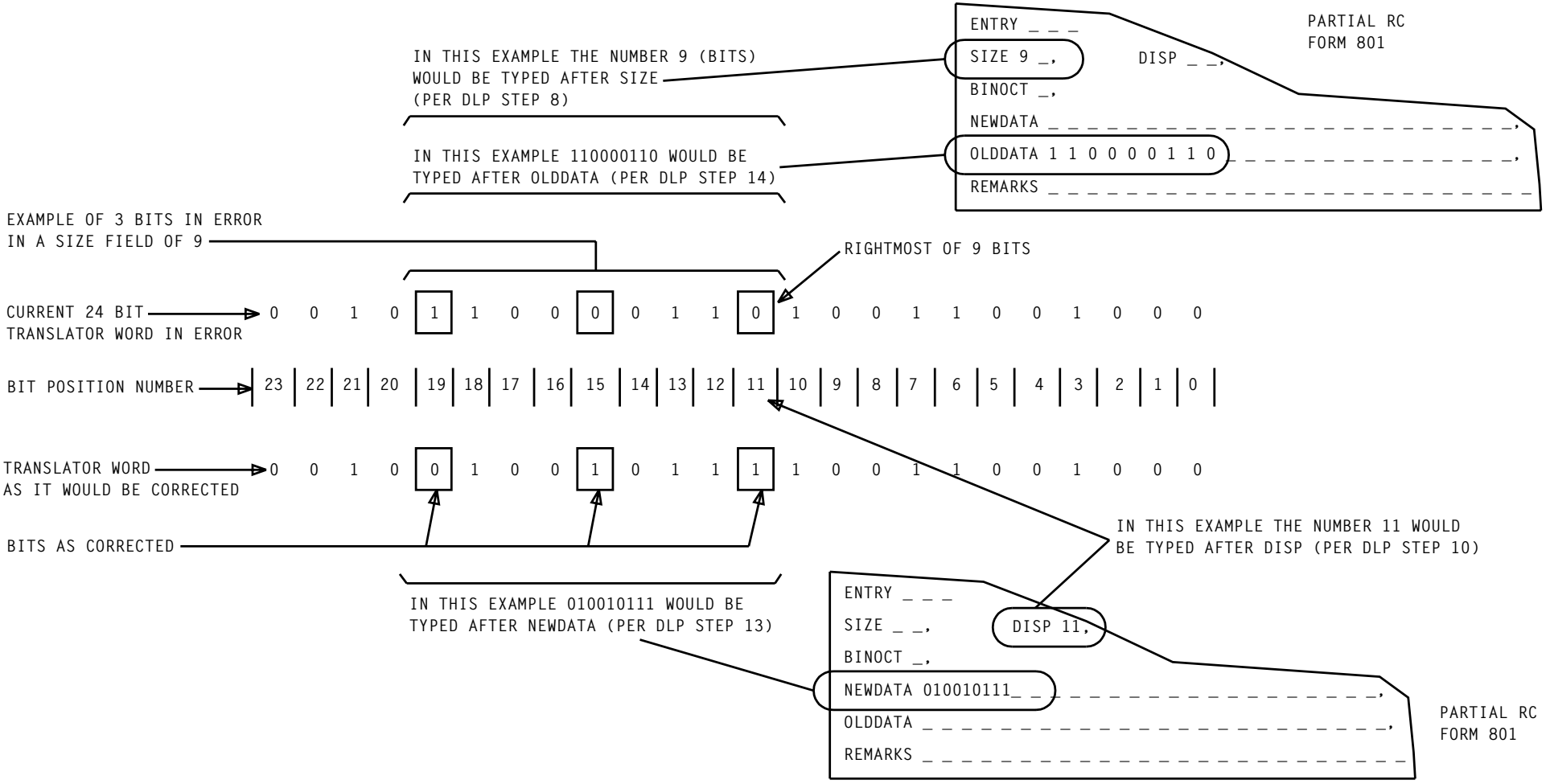

FIG. 2 — Example of Functional Word Change Considerations

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Using TTY and CRT display of RC Form 801:

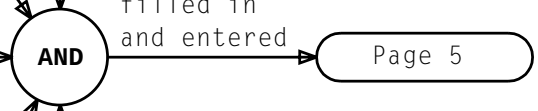
[11] Type **B** in field following **BINOCT**

[12] Read NOTE 1. Determine binary binary bits to be inserted into UT translator word to correct that word. See example in FIG. 2, Page 3

[13] In field following **NEWDATA**, type binary bits determined in Step 12. See example in FIG. 2

[14] Read NOTE 2. In field following **OLDDATA**, type current binary contents of only that portion of the UT translator word requiring change. See example in FIG. 2

[15] Enter form



RC Form 801 filled in and entered

Page 5

NOTES

1. Quantity of binary bits to be entered as **NEWDATA** must be equal to decimal number entered as **SIZE**
2. Quantity of binary bits to be entered as **OLDDATA** must be equal to quantity of bits entered as **NEWDATA**

PERFORM FUNCTIONAL WORD CHANGE TO CORRECT UT TRANSLATOR WORD THEN VERIFY

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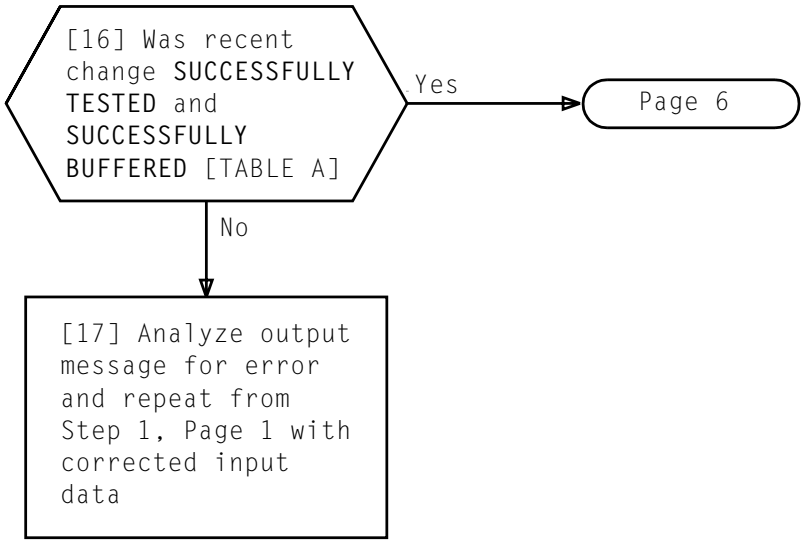

TABLE A

RC ORNU a SUCCESSFULLY TESTED

RC ORNU a SUCCESSFULLY BUFFERED

```
RC:FUNC;CHG;OPT(TRANS),BUF:   TRANSID UTSP,
ORNU    a,
ENTRY   b,            WORDNO  c,
SIZE    d,           DISP  e,
BINOCT   B,
NEWDATA f,
OLDDATA g,
REMARKS _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _!
```

REPT:RC DUMP OF UNIT TYPE ENTRY AS IT WILL APPEAR AFTER THE MESSAGE IS ACTIVATED

```
WORD 0    ______  ______  ______  ______
          ______  ______  ______  ______
WORD 10   ______  ______  ______
```

a = RC order number
b = Member number of growth SP
c = Decimal number of word changed
d = Decimal number of bits changed
e = Decimal number of bit position (Rightmost bit)
f = Binary bits inserted to correct data
g = Binary contents of portion of word changed

PERFORM FUNCTIONAL WORD CHANGE TO CORRECT UT TRANSLATOR WORD THEN VERIFY

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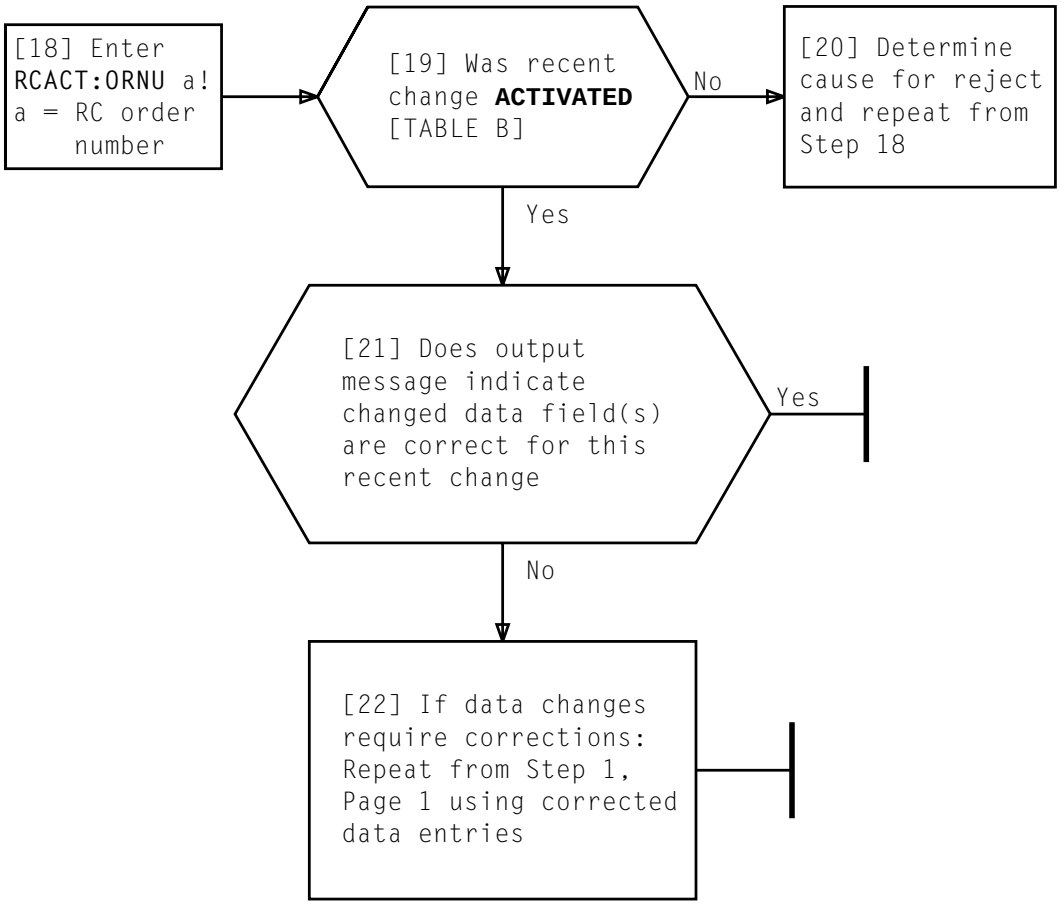

TABLE B

RC ORNU a ACTIVATED

RC:FUNC;CHG;OPT(TRANS),BUF: TRANSID UTSP,
ORNU a,

ENTRY b, WORDNO c,

SIZE d, DISP e,

BINOCT B,

NEWDATA f,

OLDDATA g,

REMARKS_____ !

a = RC order number
b = Member number of growth SP
c = Decimal number of word changed
d = Decimal number of bits changed
e = Decimal number of bit position (Rightmost bit)
f = Binary bits inserted to correct data
g = Binary contents of portion of word changed

PERFORM FUNCTIONAL WORD CHANGE TO CORRECT UT TRANSLATOR WORD THEN VERIFY

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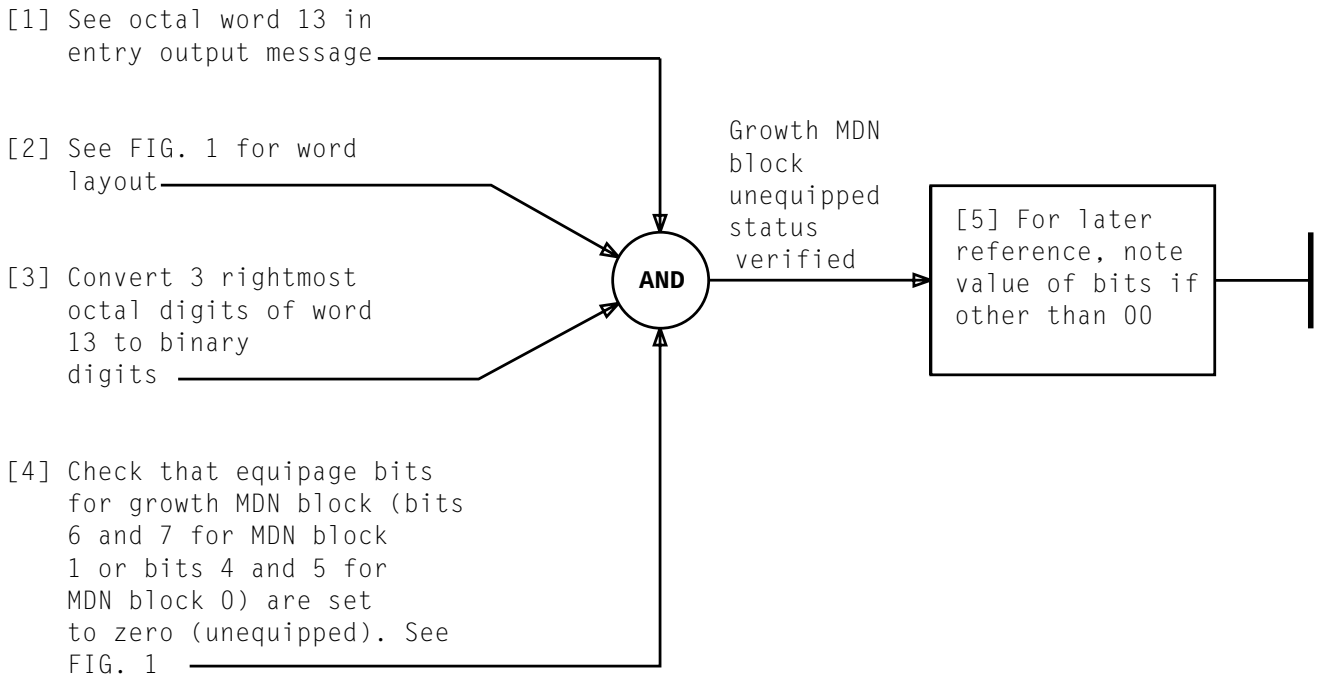

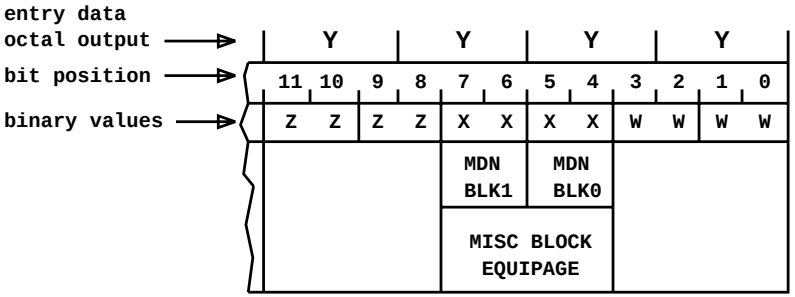

FIG. 1 — Entry Data Word 13 Layout (Partial)

VERIFY UNEQUIPPED STATUS OF GROWTH MDN BLOCK

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SUMMARY

Call up RC Form 701 on CRT. Using TTY, fill in blank fields on form to degrow state of member equipage (ME) from OPER to SGRO and/or from SGRO to GROW and/or from GROW to UNEQ. Using assigned order numbers, activate each recent change then verify completion of each change of state.

TABLE A

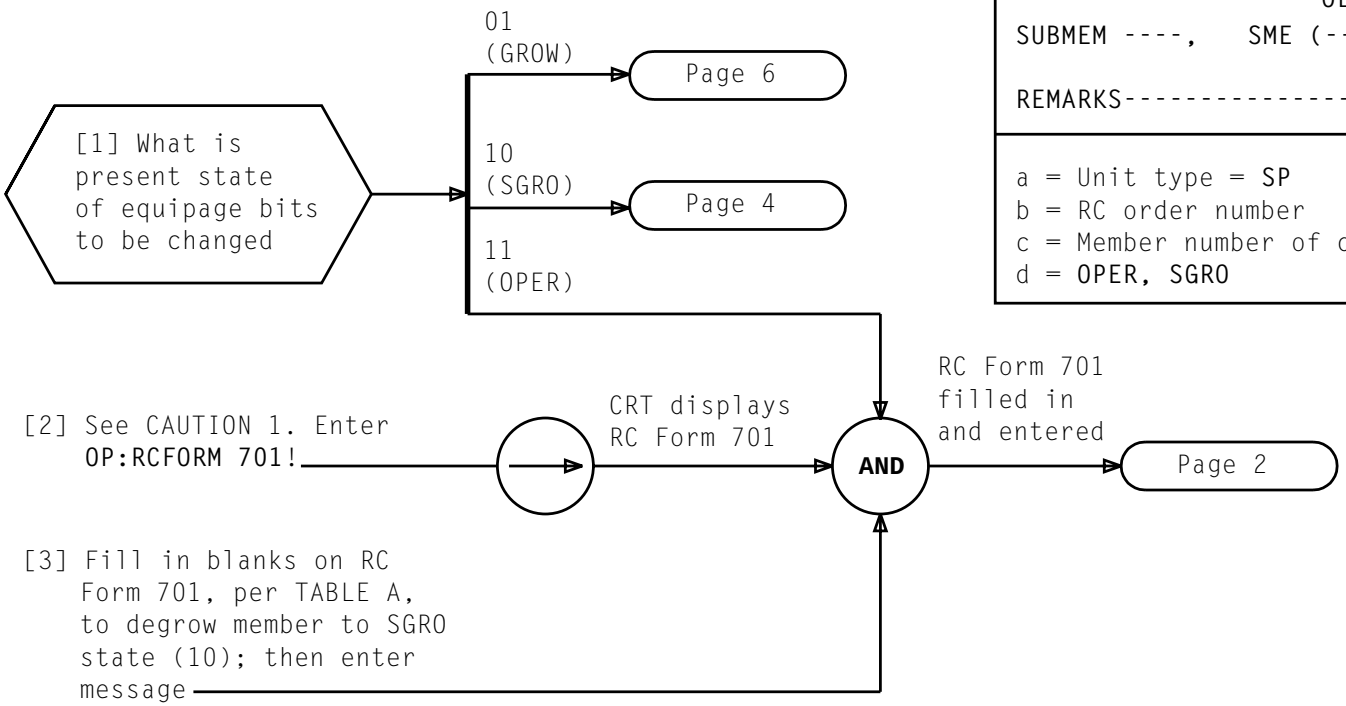
```
RC:UTYPE;CHG;OPT(EQP,DEGROW),TST:      UTYN a,

ORNU b,
                          OLD   NEW
MEMN c,          ME   ( d   ,  d ),

                          OLD   NEW
SUBMEM ----,     SME (----, ----),

REMARKS-----------------------------!
```

a = Unit type = SP
b = RC order number
c = Member number of degrowth frame
d = OPER, SGRO



CAUTION 1
Calling up RC form will cause all CRT data to be cleared

RECENT CHANGE MEMBER EQUIPAGE USING RC FORM 701 (DEGROW)

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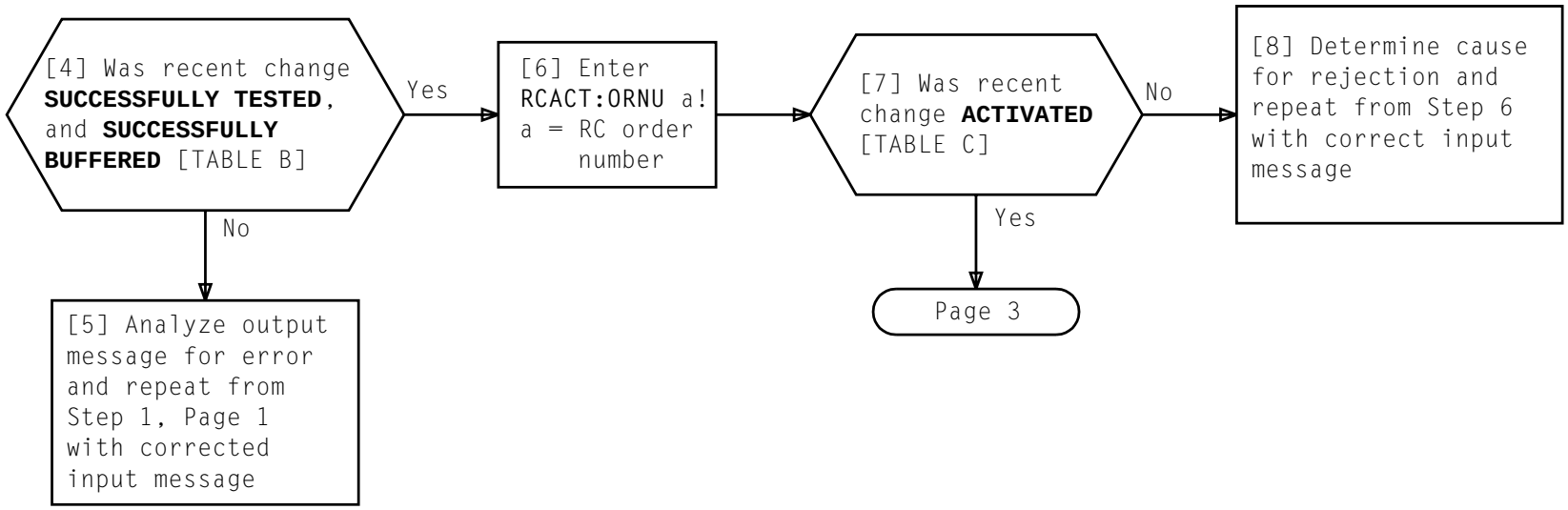

TABLE B

```
RC ORNU a SUCCESSFULLY TESTED

RC ORNU a SUCCESSFULLY BUFFERED

RC:UTYPE;CHG;OPT(EQP,DEGROW),BUF:    UTYN SP,

ORNU a,
                          OLD   NEW
MEMN b,          ME    (OPER, SGRO),

                          OLD   NEW
SUBMEM ----,     SME   (----, ----),

REMARKS--------------------------------!
```

a = RC order number
b = Member number of degrowth frame

TABLE C

```
RC ORNU a ACTIVATED

RC:UTYPE;CHG;OPT(EQP,DEGROW),BUF:     UTYN SP,

ORNU a,
                          OLD   NEW
MEMN b,           ME   (OPER, SGRO),

                          OLD   NEW
SUBMEM ----,      SME  (----, ----),

REMARKS--------------------------------!
```

a = RC order number
b = Member number of degrowth frame

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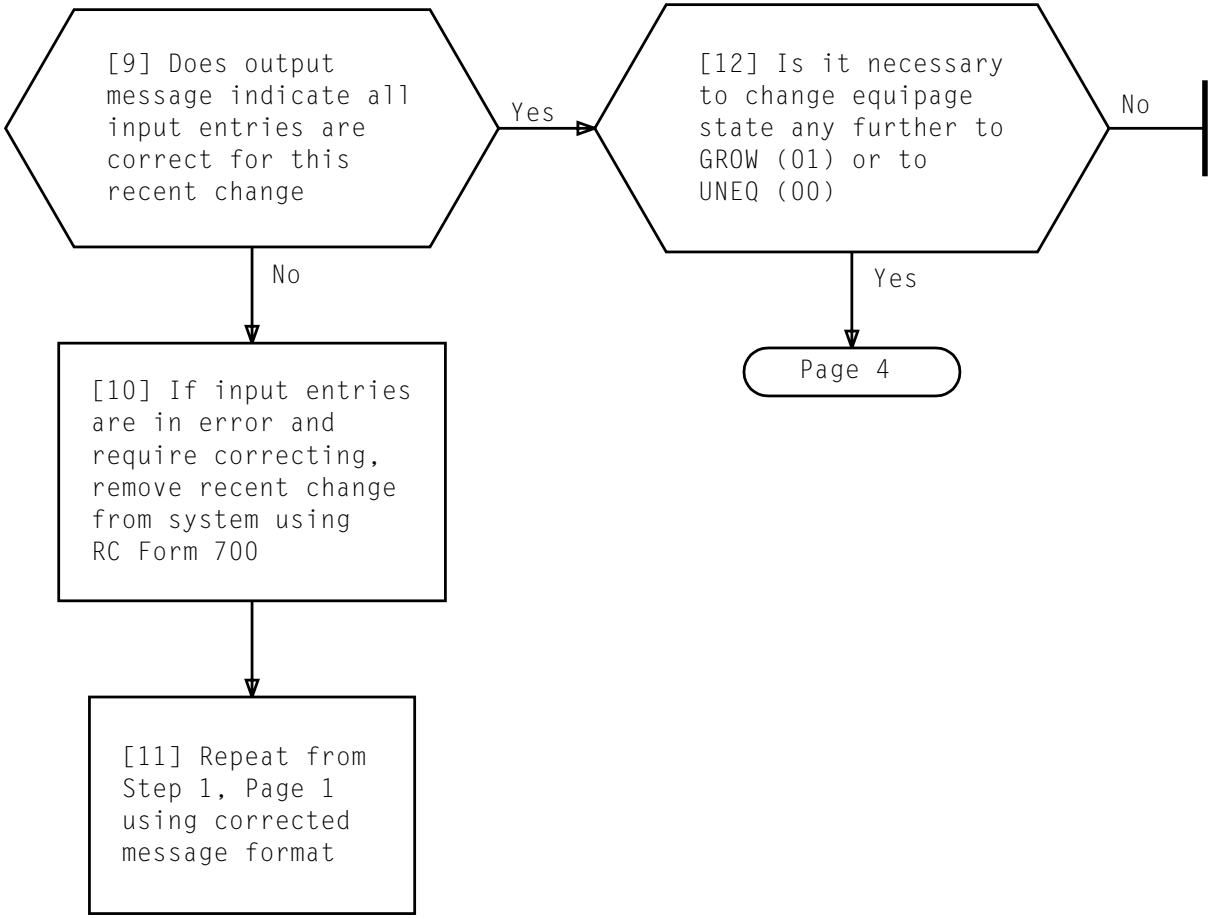

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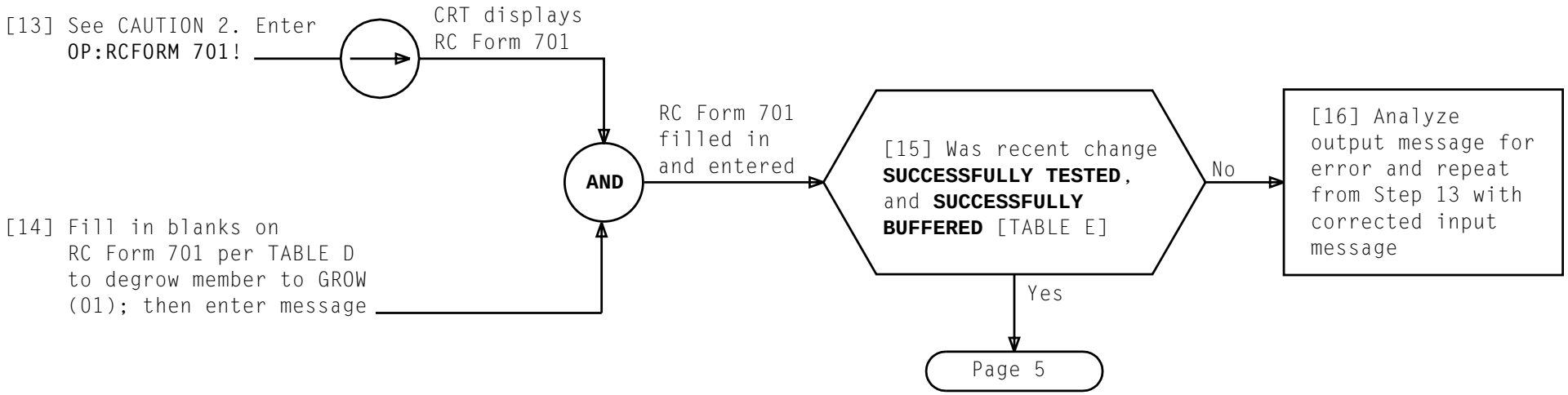

TABLE D

```
RC:UTYPE;CHG;OPT(EQP,DEGROW),TST:        UTYN a,

ORNU b,
                          OLD   NEW
MEMN c,           ME   (   d ,   d ),

                         OLD   NEW
SUBMEM ----,     SME   (----, ----),

REMARKS-----------------------------!
```

a = Unit type = SP
b = RC order number
c = Member number of degrowth frame
d = SGRO, GROW

TABLE E

```
RC ORNU a SUCCESSFULLY TESTED

RC ORNU a SUCCESSFULLY BUFFERED

RC:UTYPE;CHG;OPT(EQP,DEGROW),BUF:    UTYN SP,

ORNU a,
                          OLD   NEW
MEMN b,           ME    (SGRO, GROW),

                          OLD   NEW
SUBMEM ----,     SME   (----, ----),

REMARKS--------------------------------!
```

a = RC order number
b = Member number of degrowth frame

CAUTION 2
Calling up RC form will cause all CRT data to be cleared

RECENT CHANGE MEMBER EQUIPAGE USING RC FORM 701 (DEGROW)

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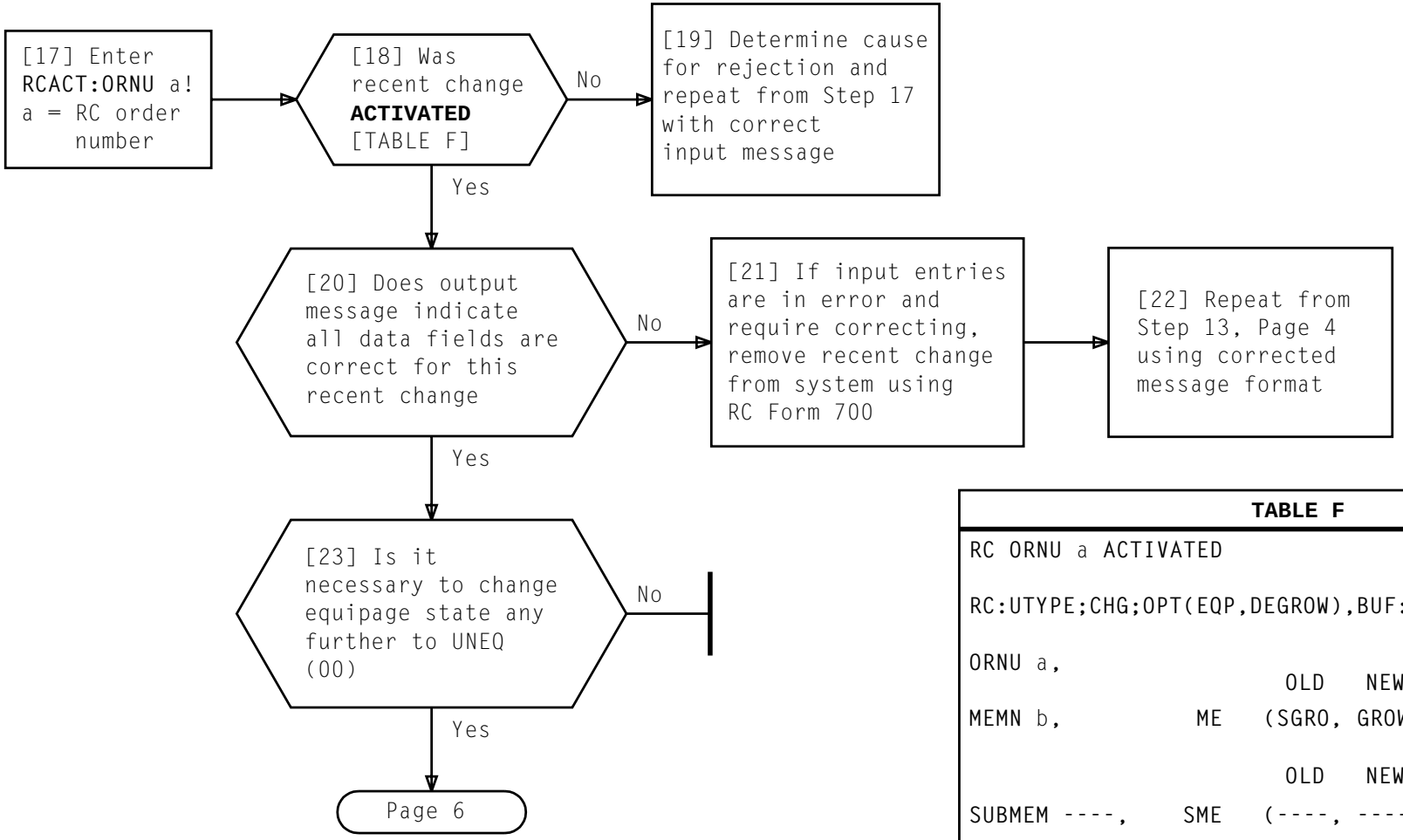

TABLE F

```
RC ORNU a ACTIVATED

RC:UTYPE;CHG;OPT(EQP,DEGROW),BUF:     UTYN SP,

ORNU a,
                              OLD   NEW
MEMN b,           ME    (SGRO, GROW),

                              OLD   NEW
SUBMEM ----,     SME    (----, ----),

REMARKS--------------------------------!
```

a = RC order number
b = Member number of degrowth frame

RECENT CHANGE MEMBER EQUIPAGE USING RC FORM 701 (DEGROW)

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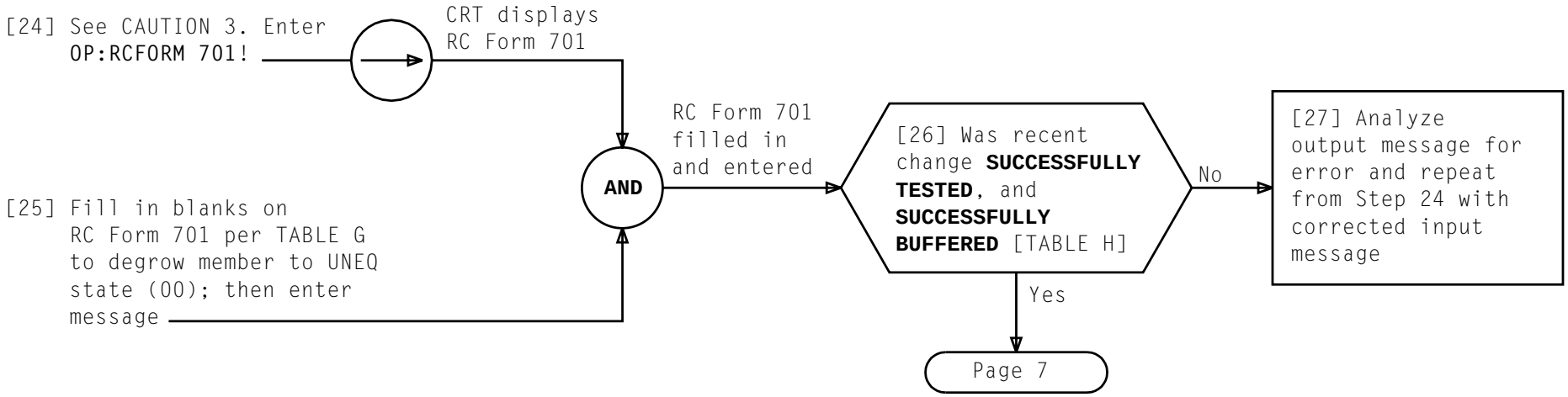

TABLE G

```
RC:UTYPE;CHG;OPT(EQP,DEGROW),TST:        UTYN a,

ORNU b,
                          OLD  NEW
MEMN c,            ME    (  d,   d ),

                          OLD  NEW
SUBMEM ----,       SME   (----, ----),

REMARKS------------------------------!
```

a = Unit type = SP
b = RC order number
c = Member number of degrowth frame
d = GROW, UNEQ

TABLE H

```
RC ORNU a SUCCESSFULLY TESTED

RC ORNU a SUCCESSFULLY BUFFERED

RC:UTYPE;CHG;OPT(EQP,DEGROW),BUF:    UTYN SP,

ORNU a,
                            OLD   NEW
MEMN b,            ME     (GROW, UNEQ),

                            OLD   NEW
SUBMEM ----,       SME    (----, ----),

REMARKS--------------------------------!
```

a = RC order number
b = Member number of degrowth frame

CAUTION 3
Calling up RC form will cause all CRT data to be cleared

RECENT CHANGE MEMBER EQUIPAGE USING RC FORM 701 (DEGROW)

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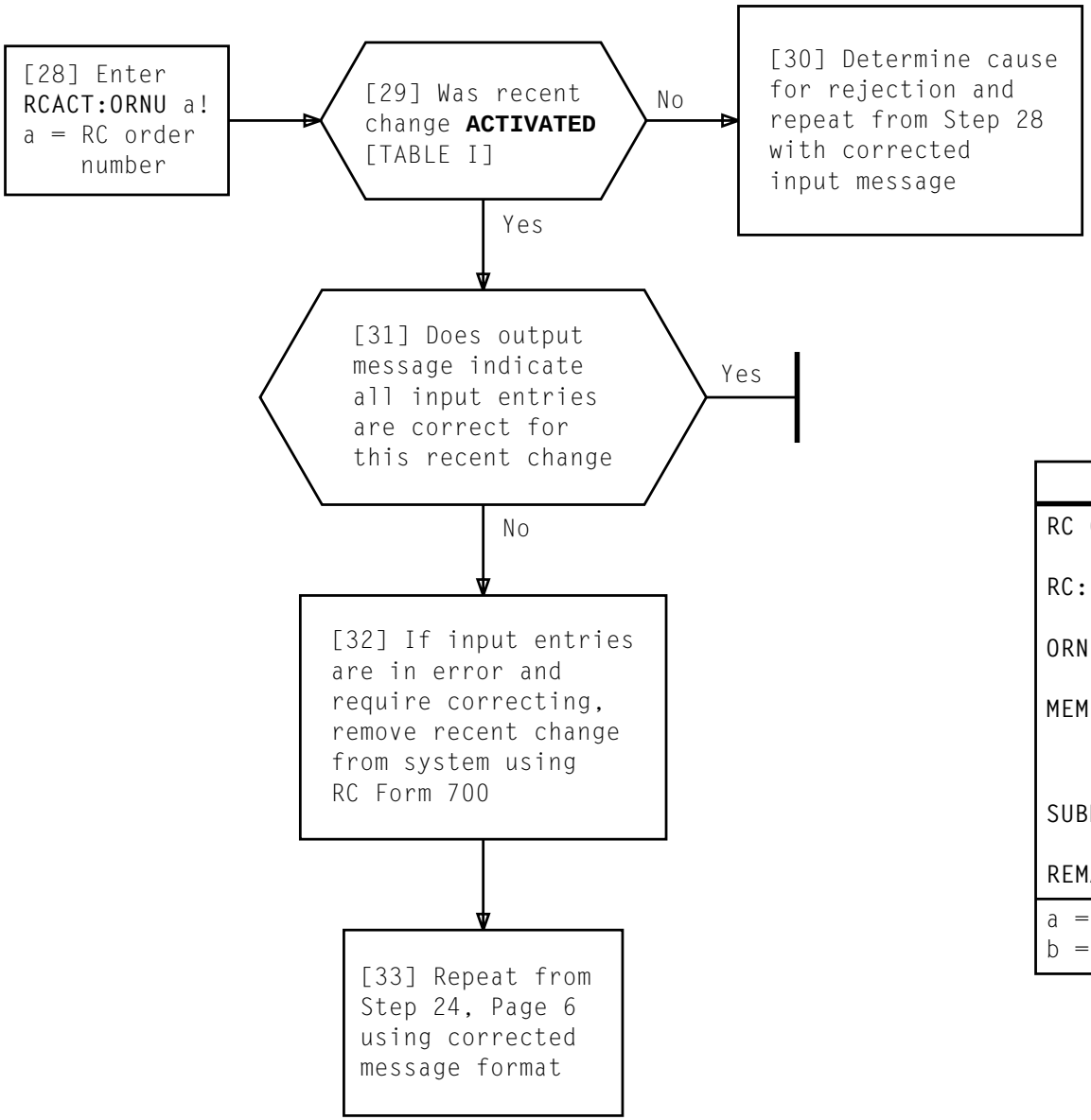

TABLE I

```
RC ORNU a ACTIVATED

RC:UTYPE;CHG;OPT(EQP,DEGROW),BUF:     UTYN SP,

ORNU a,
                            OLD   NEW
MEMN b,           ME    (GROW, UNEQ),

                            OLD   NEW
SUBMEM ----,     SME    (----, ----),

REMARKS--------------------------------!
```

a = RC order number
b = Member number of degrowth frame

RECENT CHANGE MEMBER EQUIPAGE USING RC FORM 701 (DEGROW)

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SUMMARY

Call up RC Form 701 on CRT. Using TTY, fill in blank fields on form to degrow state of submember equipage (SME) from OPER to SGRO and/or from SGRO to GROW and/or from GROW to UNEQ. Using assigned order numbers, activate each recent change; then verify completion of each change of state.

TABLE A

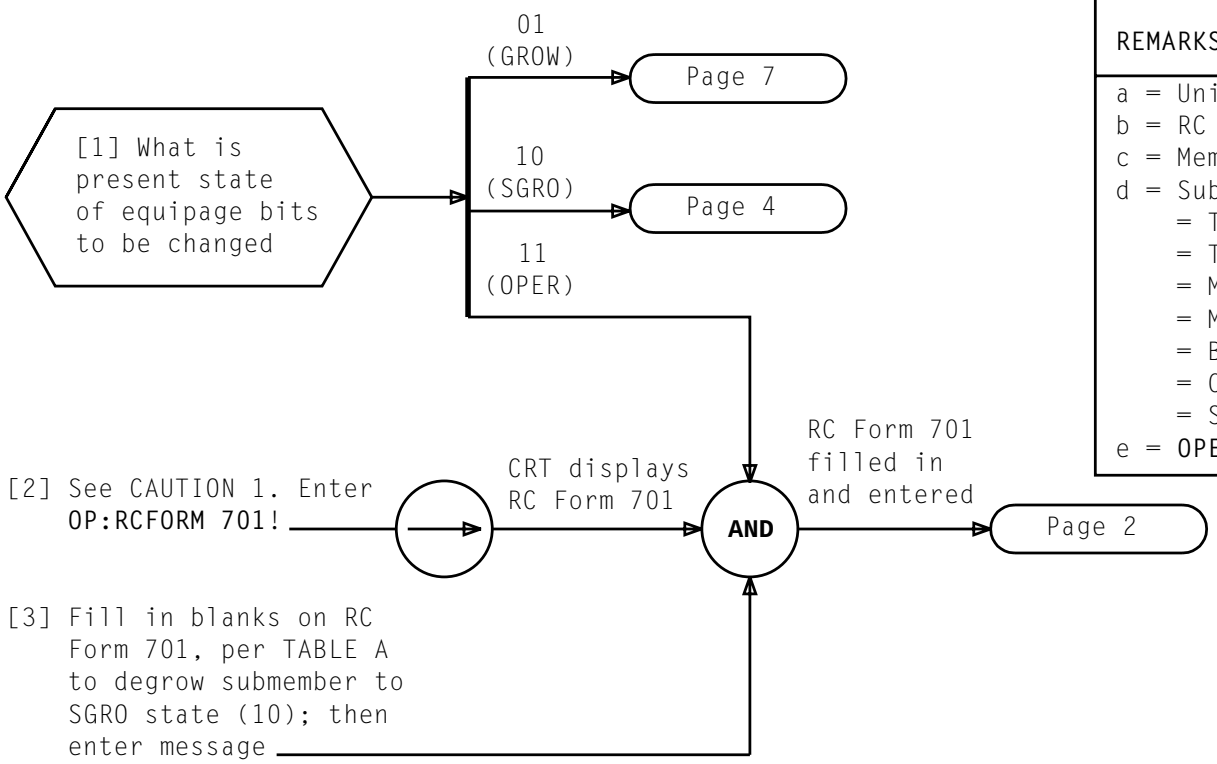
```
RC:UTYPE;CHG;OPT(EQP,DEGROW),TST:      UTYN a,

ORNU b,
                          OLD   NEW
MEMN c,          ME    (----, ----),

                          OLD   NEW
SUBMEM d,        SME   ( e   ,  e  ),

REMARKS----------------------------------!
```

a = Unit type = SP
b = RC order number
c = Member number of degrowth associated SP
d = Submember name:
    = TSNBLK(0 to 3) (for Univ Scan Block 0-3)
    = TDNBLK(0 to 3) (for Univ SD Block 0-3)
    = MSNBLK(0 or 1) (for Misc Scan Block 0 or 1)
    = MDNBLK(0 or 1) (for Misc SD Block 0 or 1)
    = BFE (for Left Matrix Equipage)
    = CFE (for Right Matrix Equipage)
    = SP2EQ(0 to 3) (for SP2 DT Interface Unit 0-3)
e = OPER, SGRO



CAUTION 1
Calling up RC form will cause all CRT data to be cleared

RECENT CHANGE SUBMEMBER EQUIPAGE USING RC FORM 701 (DEGROW)

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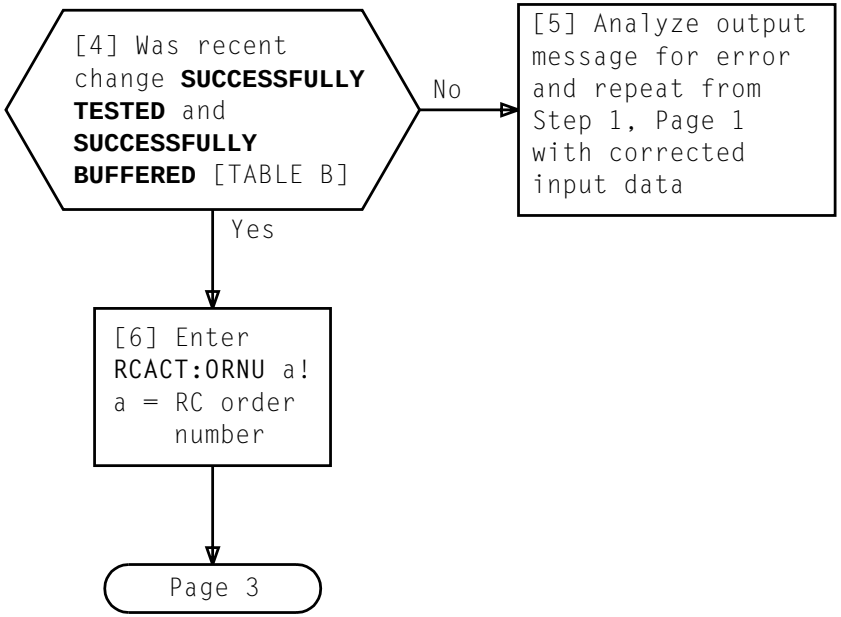

TABLE B

```
RC ORNU a SUCCESSFULLY TESTED

RC ORNU a SUCCESSFULLY BUFFERED

RC:UTYPE;CHG;OPT(EQP,DEGROW),BUF:        UTYN SP,

ORNU a,
                          OLD   NEW
MEMN b,          ME    (----, ----),

                          OLD   NEW
SUBMEM c,        SME    (OPER, SGRO),

REMARKS--------------------------------!
```

a = RC order number
b = Member number of degrowth associated SP
c = Submember name:
- = TSNBLK(0 to 3) (for Univ Scan Block 0-3)
- = TDNBLK(0 to 3) (for Univ SD Block 0-3)
- = MSNBLK(0 or 1) (for Misc Scan Block 0 or 1)
- = MDNBLK(0 or 1) (for Misc SD Block 0 or 1)
- = BFE (for Left Matrix Equipage)
- = CFE (for Right Matrix Equipage)
- = SP2EQ(0 to 3) (for SP2 DT Interface Unit 0-3)

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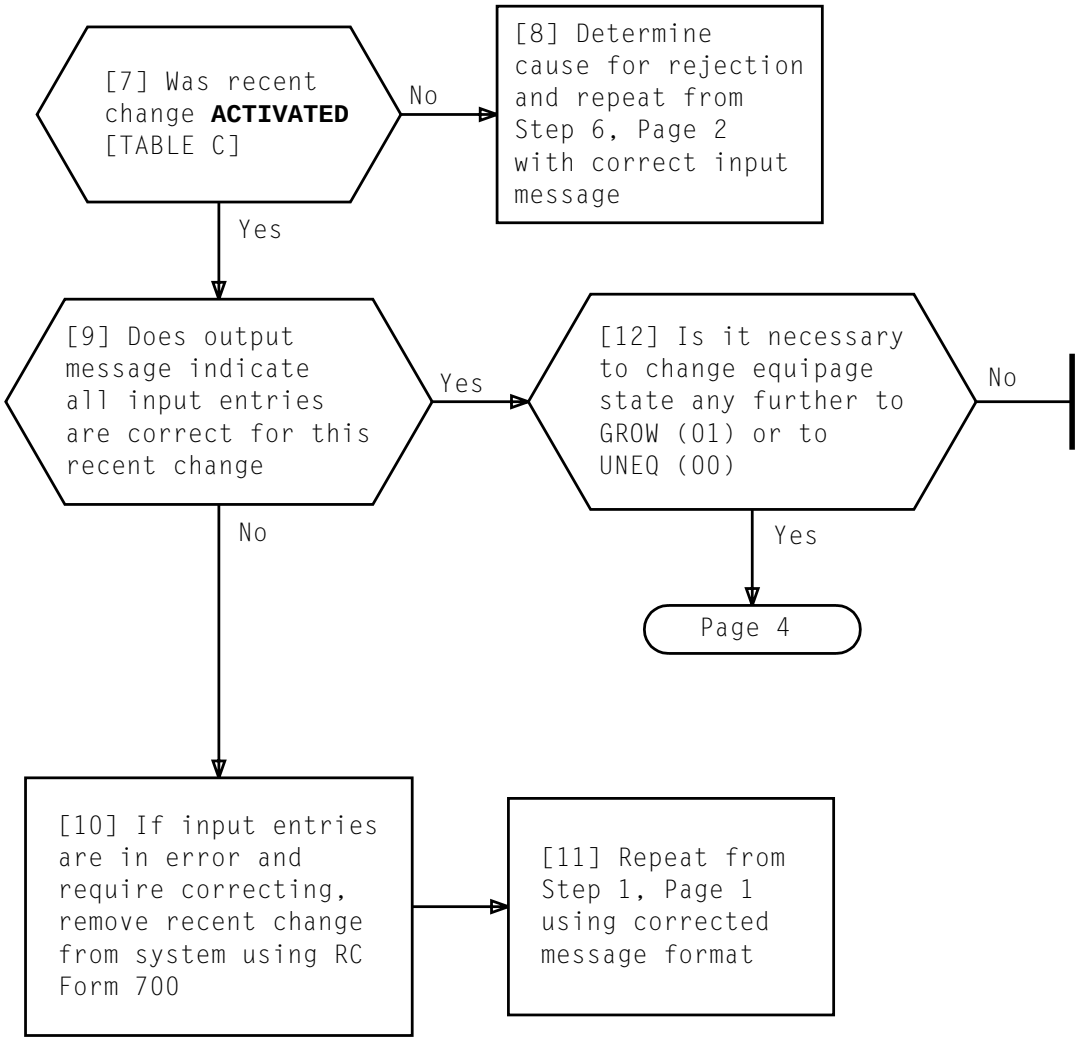

TABLE C

```
RC:ORNU a ACTIVATED

RC:UTYPE;CHG;OPT(EQP,GROW),BUF:          UTYN SP,

ORNU a,
                              OLD    NEW
MEMN b,            ME    (----, ----),

                              OLD    NEW
SUBMEM c,          SME   (OPER, SGRO),

REMARKS--------------------------------!
```

a = RC order number
b = Member number of degrowth associated SP
c = Submember name:
- = TSNBLK(0 to 3) (for Univ Scan Block 0-3)
- = TDNBLK(0 to 3) (for Univ SD Block 0-3)
- = MSNBLK(0 or 1) (for Misc Scan Block 0 or 1)
- = MDNBLK(0 or 1) (for Misc SD Block 0 or 1)
- = BFE (for Left Matrix Equipage)
- = CFE (for Right Matrix Equipage)
- = SP2EQ(0 to 3) (for SP2 DT Interface Unit 0-3)

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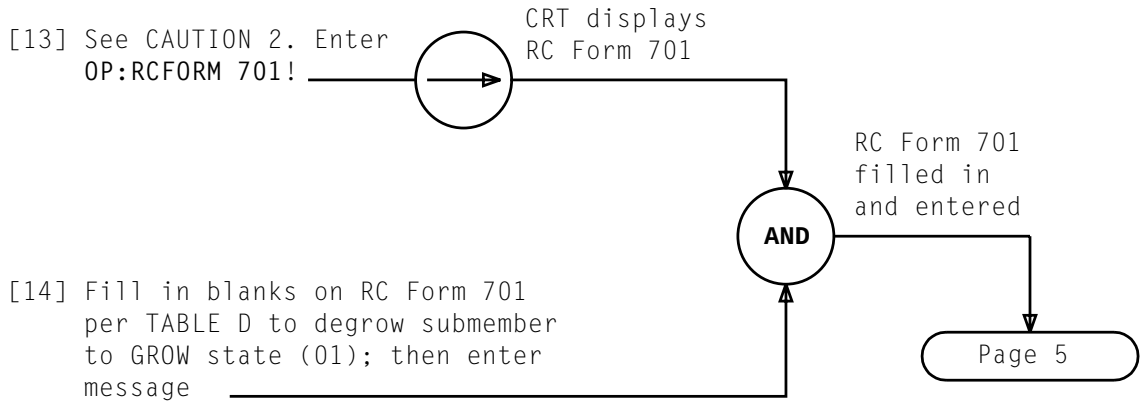

TABLE D

```
RC:UTYPE;CHG;OPT(EQP,DEGROW),TST:        UTYN a,

ORNU b,
                              OLD   NEW
MEMN c,           ME      (----, ----),

                              OLD   NEW
SUBMEM d,         SME     (  e ,   e ),

REMARKS--------------------------------!
```

a = Unit type = SP
b = RC order number
c = Member number of degrowth associated SP
d = Submember name:
- = TSNBLK(0 to 3) (for Univ Scan Block 0-3)
- = TDNBLK(0 to 3) (for Univ SD Block 0-3)
- = MSNBLK(0 or 1) (for Misc Scan Block 0 or 1)
- = MDNBLK(0 or 1) (for Misc SD Block 0 or 1)
- = BFE (for Left Matrix Equipage)
- = CFE (for Right Matrix Equipage)
- = SP2EQ(0 to 3) (for SP2 DT Interface Unit 0-3)

e = SGRO, GROW

CAUTION 2
Calling up RC form will cause all CRT data to be cleared

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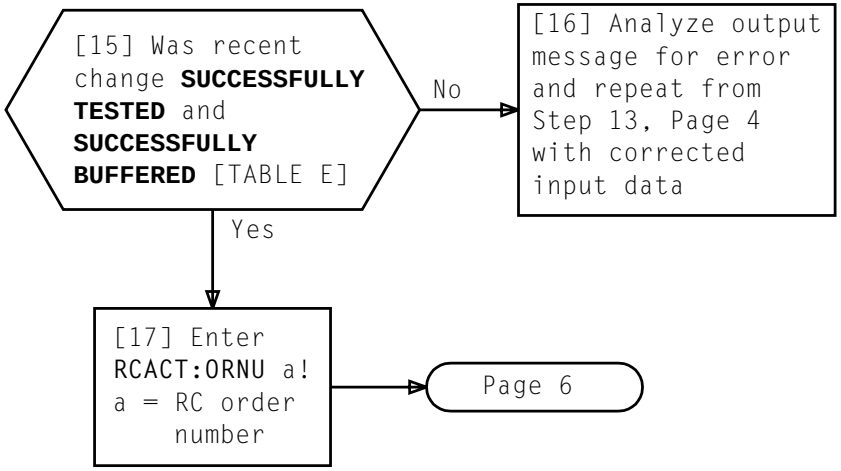

TABLE E

```
RC ORNU a SUCCESSFULLY TESTED

RC ORNU a SUCCESSFULLY BUFFERED

RC:UTYPE;CHG;OPT(EQP,DEGROW),BUF:       UTYN SP,

ORNU a,
                          OLD   NEW
MEMN b,          ME    (----, ----),

                          OLD   NEW
SUBMEM c,        SME   (SGRO, GROW),

REMARKS-------------------------------!
```

a = RC order number
b = Member number of degrowth associated SP
c = Submember name:
- = TSNBLK(0 to 3) (for Univ Scan Block 0-3)
- = TDNBLK(0 to 3) (for Univ SD Block 0-3)
- = MSNBLK(0 or 1) (for Misc Scan Block 0 or 1)
- = MDNBLK(0 or 1) (for Misc SD Block 0 or 1)
- = BFE (for Left Matrix Equipage)
- = CFE (for Right Matrix Equipage)
- = SP2EQ(0 to 3) (for SP2 DT Interface Unit 0-3)

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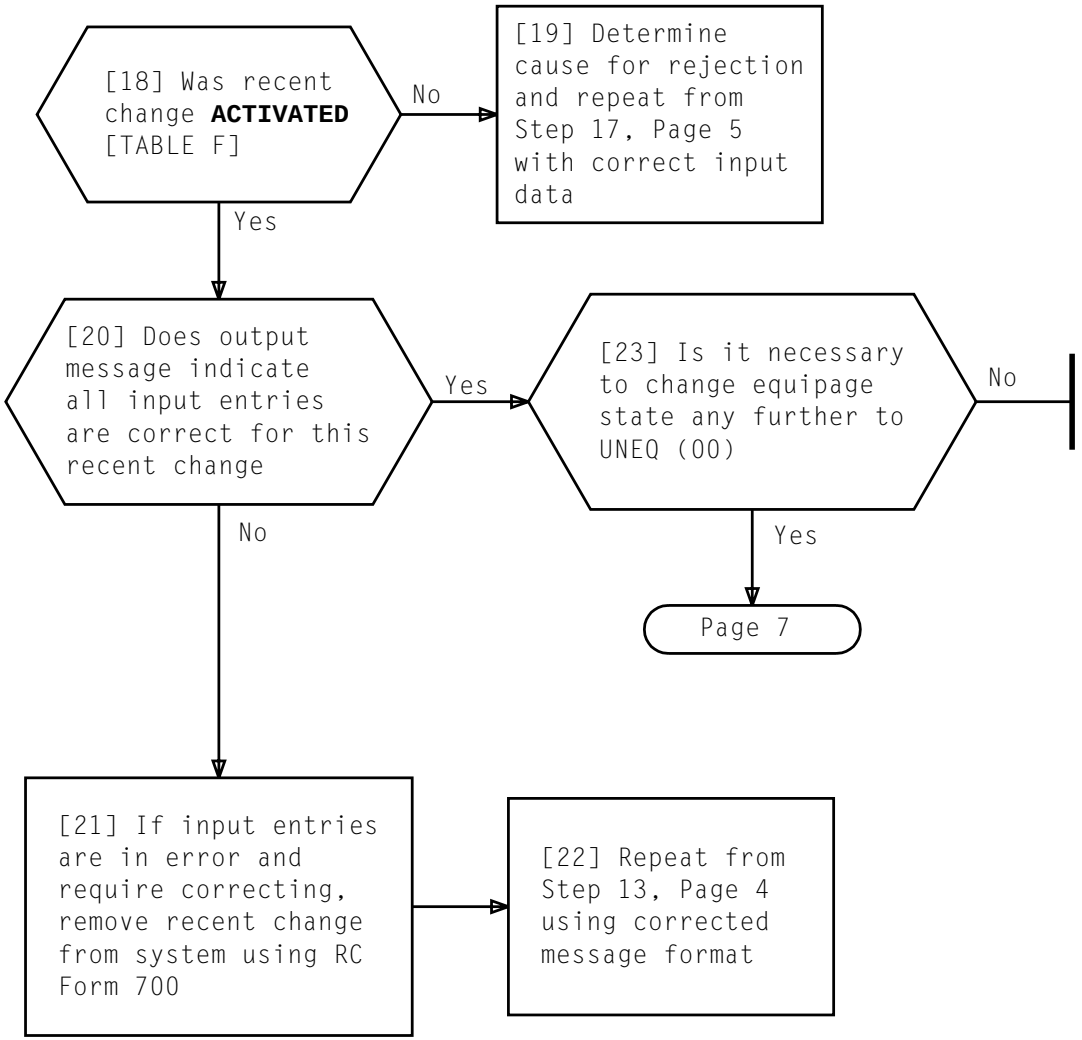

TABLE F

```
RC ORNU a ACTIVATED
RC:UTYPE;CHG;OPT(EQP,GROW), BUF:        UTYN SP,

ORNU a,
                            OLD   NEW
MEMN b,          ME    (----, ----),

                            OLD   NEW
SUBMEM c,        SME   (SGRO, GROW),

REMARKS-------------------------------!
```

a = RC order number
b = Member number of degrowth associated SP
c = Submember name:
- = TSNBLK(0 to 3) (for Univ Scan Block 0-3)
- = TDNBLK(0 to 3) (for Univ SD Block 0-3)
- = MSNBLK(0 or 1) (for Misc Scan Block 0 or 1)
- = MDNBLK(0 or 1) (for Misc SD Block 0 or 1)
- = BFE (for Left Matrix Equipage)
- = CFE (for Right Matrix Equipage)
- = SP2EQ(0 to 3) (for SP2 DT Interface Unit 0-3)

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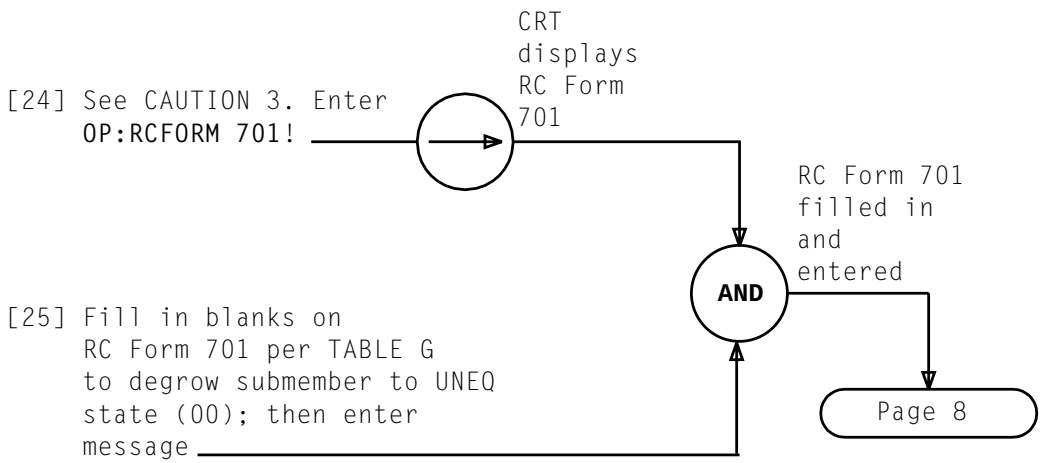

TABLE G

```
RC:UTYPE;CHG;OPT(EQP,DEGROW),TST:        UTYN a,

ORNU b,
                          OLD  NEW
MEMN c,          ME    (----, ----),

                          OLD  NEW
SUBMEM d,        SME   (  e ,   e ),

REMARKS------------------------------!
```

a = Unit type = SP
b = RC order number
c = Member number of degrowth associated SP
d = Submember name:
- = TSNBLK(0 to 3) (for Univ Scan Block 0-3)
- = TDNBLK(0 to 3) (for Univ SD Block 0-3)
- = MSNBLK(0 or 1) (for Misc Scan Block 0 or 1)
- = MDNBLK(0 or 1) (for Misc SD Block 0 or 1)
- = BFE (for Left Matrix Equipage)
- = CFE (for Right Matrix Equipage)
- = SP2EQ(0 to 3) (for SP2 DT Interface Unit 0-3)

e = GROW, UNEQ

CAUTION 3
Calling up RC form will cause all CRT data to be cleared

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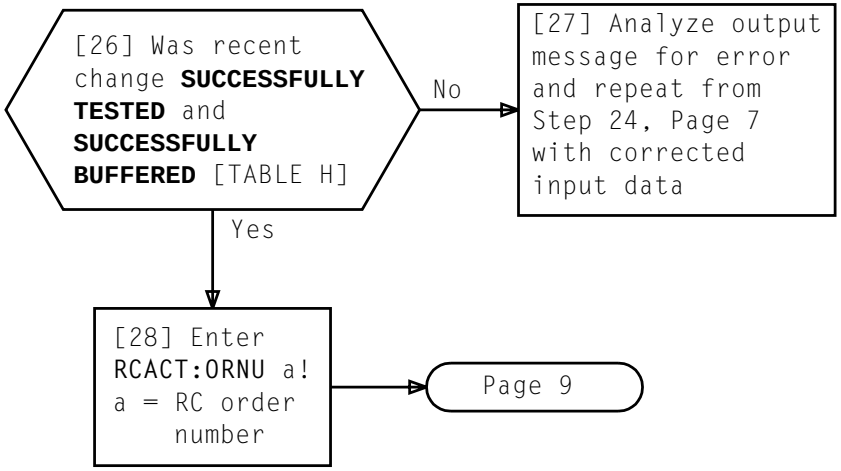

TABLE H

```
RC ORNU a SUCCESSFULLY TESTED

RC ORNU a SUCCESSFULLY BUFFERED

RC:UTYPE;CHG;OPT(EQP,DEGROW),BUF:        UTYN SP,

ORNU a,
                          OLD   NEW
MEMN b,          ME    (----, ----),

                          OLD   NEW
SUBMEM c,        SME   (GROW, UNEQ),

REMARKS--------------------------------!
```

a = RC order number
b = Member number of degrowth associated SP
c = Submember name:
- = TSNBLK(0 to 3) (for Univ Scan Block 0-3)
- = TDNBLK(0 to 3) (for Univ SD Block 0-3)
- = MSNBLK(0 or 1) (for Misc Scan Block 0 or 1)
- = MDNBLK(0 or 1) (for Misc SD Block 0 or 1)
- = BFE (for Left Matrix Equipage)
- = CFE (for Right Matrix Equipage)
- = SP2EQ(0 to 3) (for SP2 DT Interface Unit 0-3)

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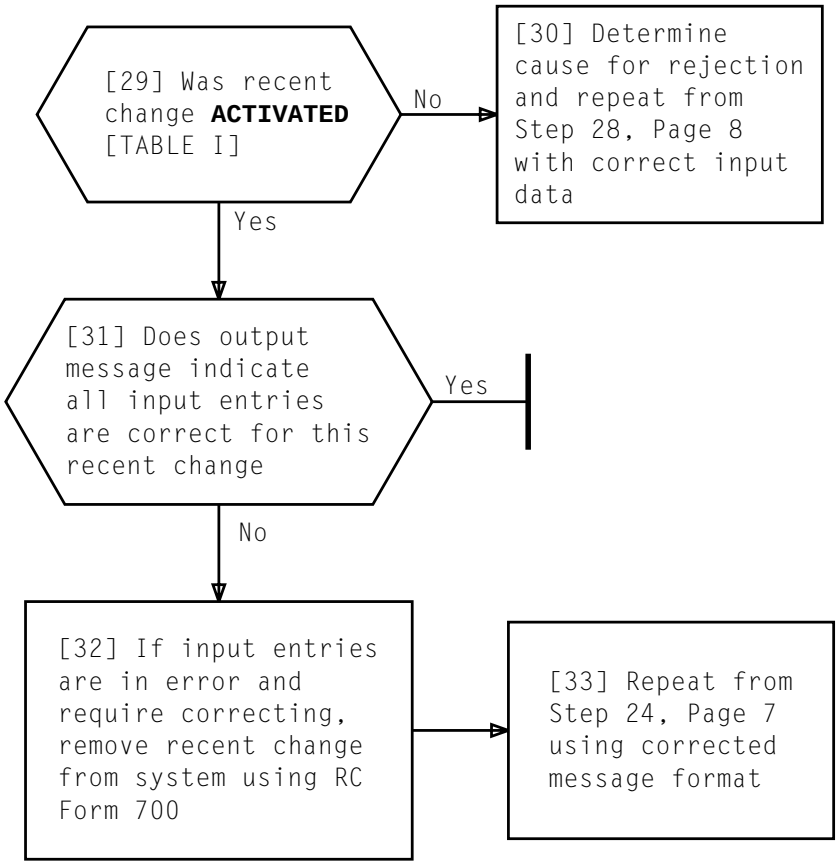

TABLE I

```
RC ORNU a ACTIVATED
RC:UTYPE;CHG;OPT(EQP,GROW),BUF:        UTYN SP,

ORNU a,
                          OLD   NEW
MEMN b,          ME    (----, ----),

                          OLD   NEW
SUBMEM c,        SME   (GROW, UNEQ),

REMARKS--------------------------------!
```

a = RC order number
b = Member number of degrowth associated SP
c = Submember name:
- = TSNBLK(0 to 3) (for Univ Scan Block 0-3)
- = TDNBLK(0 to 3) (for Univ SD Block 0-3)
- = MSNBLK(0 or 1) (for Misc Scan Block 0 or 1)
- = MDNBLK(0 or 1) (for Misc SD Block 0 or 1)
- = BFE (for Left Matrix Equipage)
- = CFE (for Right Matrix Equipage)
- = SP2EQ(0 to 3) (for SP2 DT Interface Unit 0-3)

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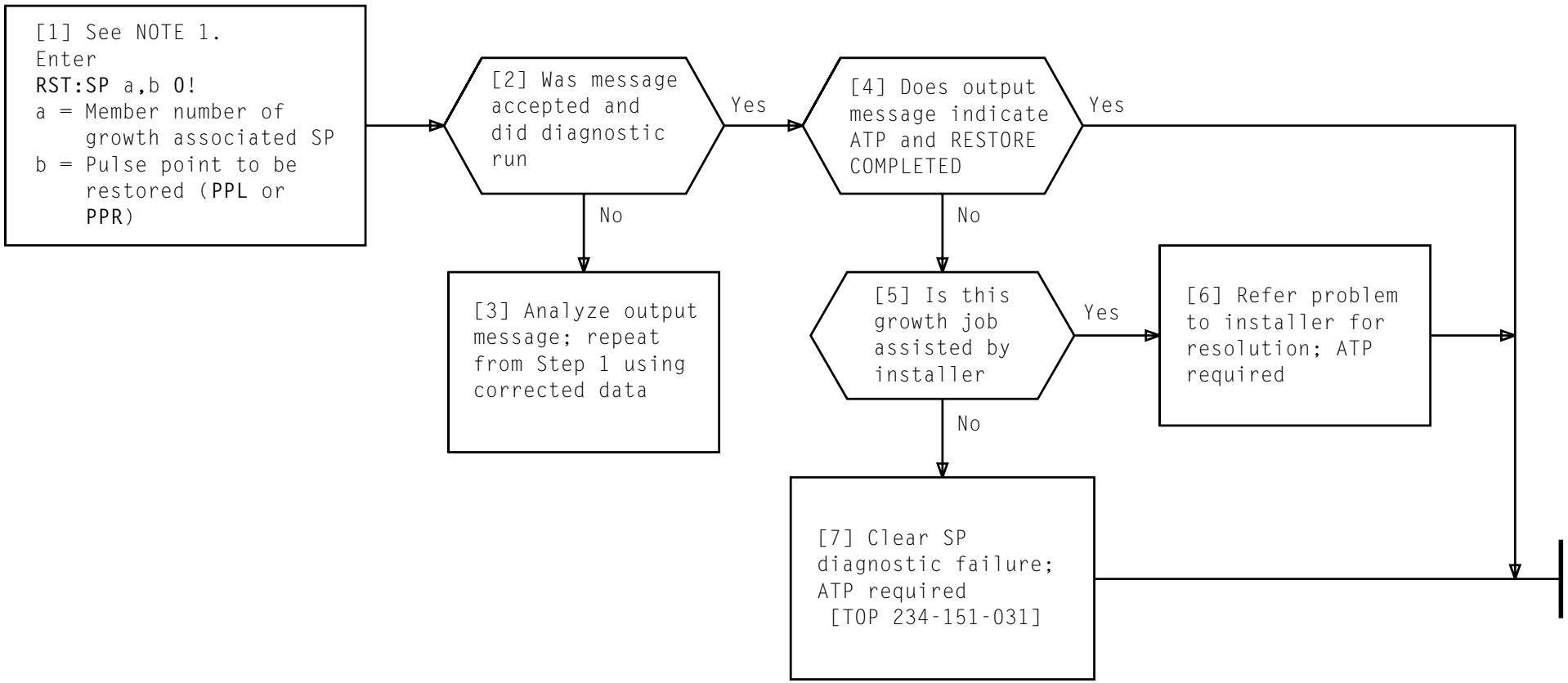

NOTE 1
Restore message will cause diagnostic to be run. Pulse point logic will be restored, if ATP

RESTORE PULSE POINT LOGIC TO SERVICE

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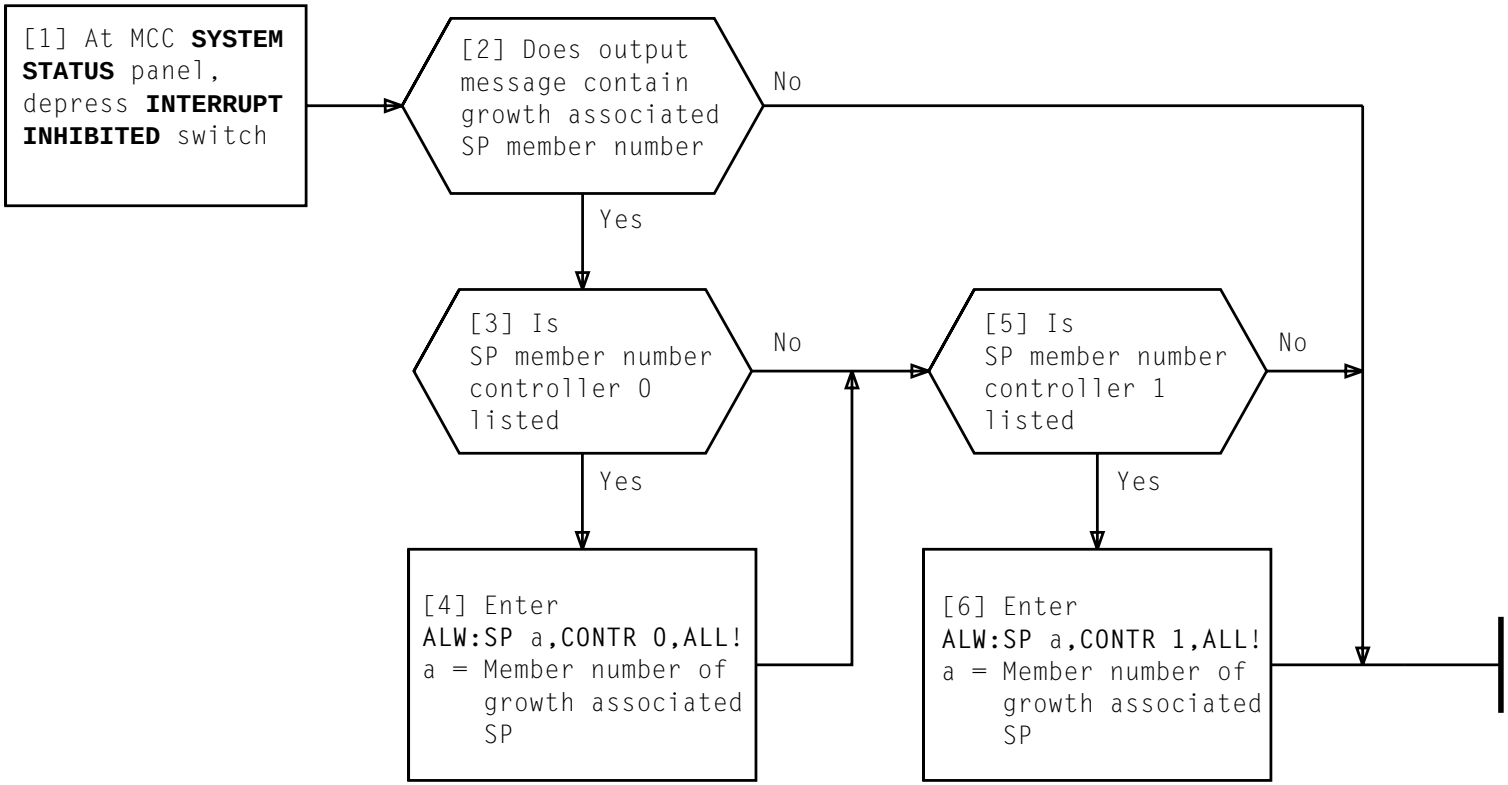

IDENTIFY AND REMOVE PEST CONDITIONS

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[1] Determine from company order member number of SP to which K block(s) is being added and K block(s) to be added. See TABLE A

[2] See FIG. 1, Page 2 and FIG. 2, Page 3 for bay numbering sequence and K block(s) location

[3] Select equipment per TABLE B for K block(s) being added. Read NOTE 1

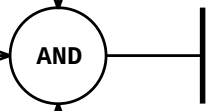

TABLE A

K BLOCK NUMBER	SP TRANSLATION EQUIVALENT
K4	Miscellaneous SD Block 0 (MDN 0)
K5	Miscellaneous SD Block 1 (MDN 1)

TABLE B

K BLOCK			D&SM				DA					
LEFT FRAME	RIGHT FRAME	OPTIONS	CIRCUIT PACKS		DC-DC CONVERTERS		CIRCUIT PACKS		FUSE		DC-DC CONVERTERS	
			TYPE	QTY	TYPE	QTY	TYPE	QTY	TYPE	QTY	TYPE	QTY
K4 MDN 0	K5 MDN 1	256 Pulse 768 Relay	**FA605** **FA610**	24 8	J87407A-2, L2	8	**FB228** **FB229** **FB231** **FC78**	96 32 2 2	**70A** **70B** **70D** **70F** **70G**	1 1 2 2 2	J87407A-2, L2	2
K4 MDN 0	K5 MDN 1	512 Pulse 512 Relay	**FA605** **FA610**	16 16	J87407A-2, L2	8	**FB228** **FB229** **FB231** **FC78**	64 64 4 4	**70A** **70B** **70F** **70G**	1 1 4 4	J87407A-2, L2	4

NOTE 1
Quantities shown in TABLE B are for one K block. If K blocks 4 and 5 are being added on this order, double quantity shown when selecting equipment

SELECT MISCELLANEOUS SD EQUIPMENT AND DETERMINE GROWTH K BLOCK LOCATION(S)

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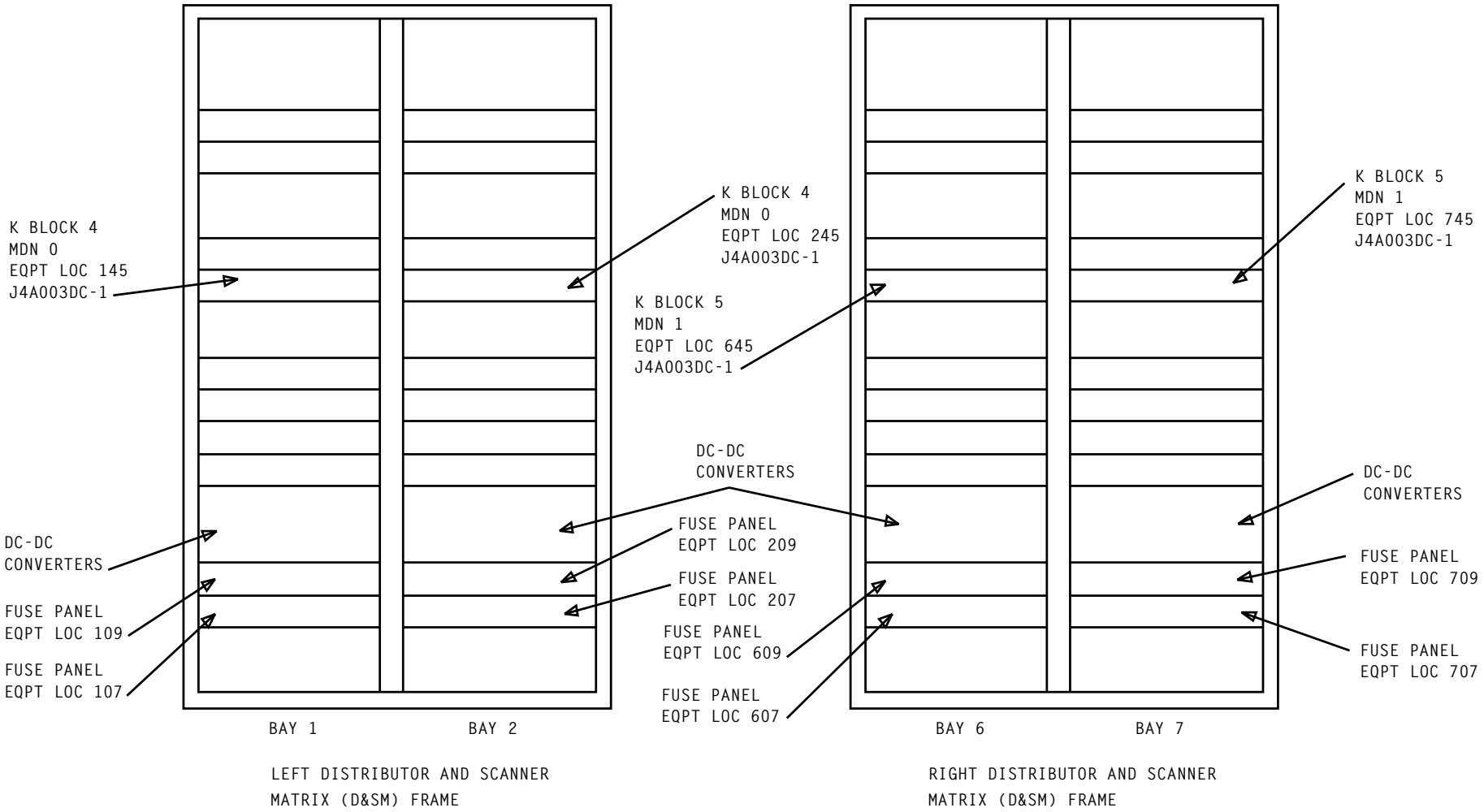

FIG. 1

SELECT MISCELLANEOUS SD EQUIPMENT AND DETERMINE GROWTH K BLOCK LOCATION(S)

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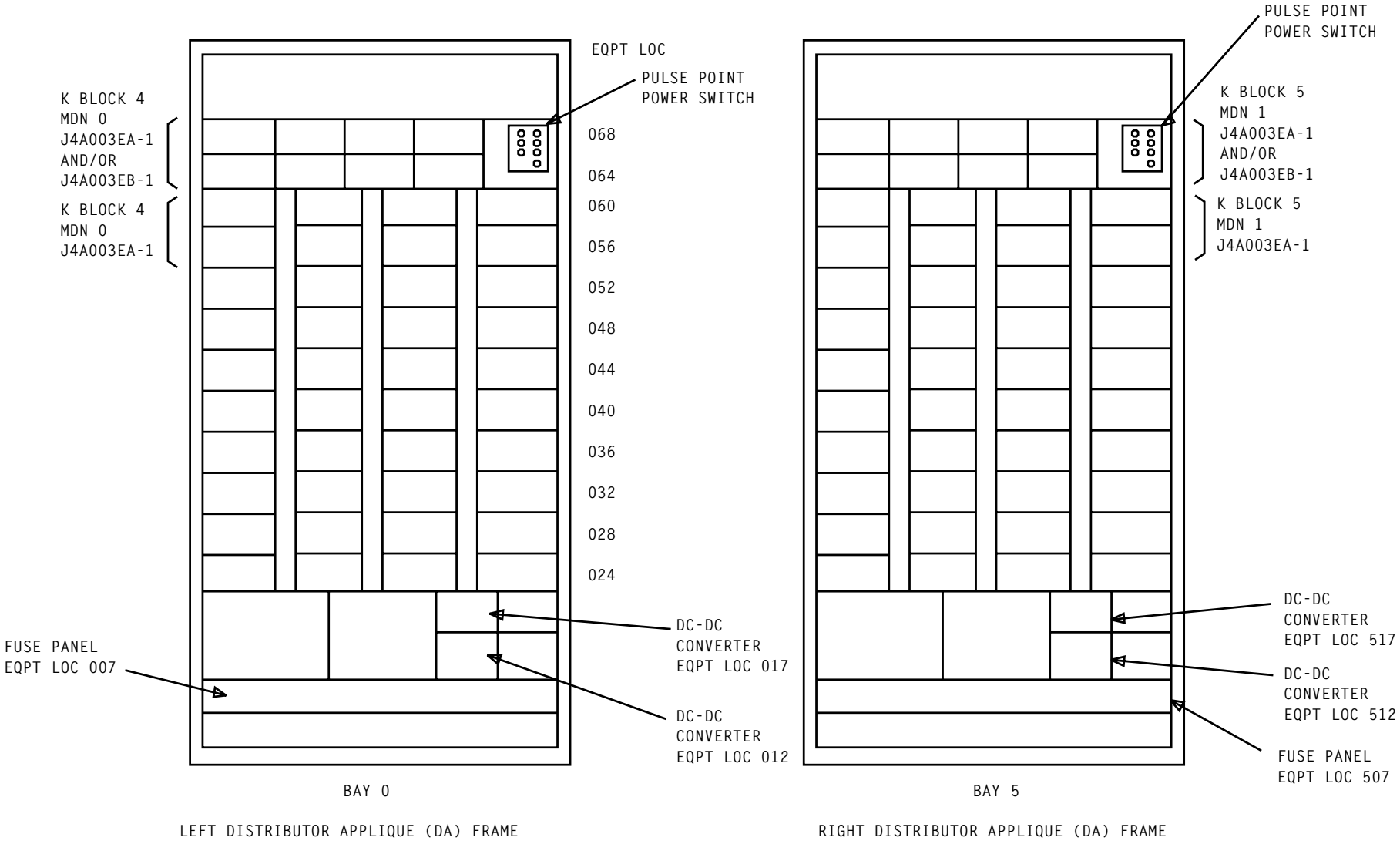

FIG. 2

SELECT MISCELLANEOUS SD EQUIPMENT AND DETERMINE GROWTH K BLOCK LOCATION(S)

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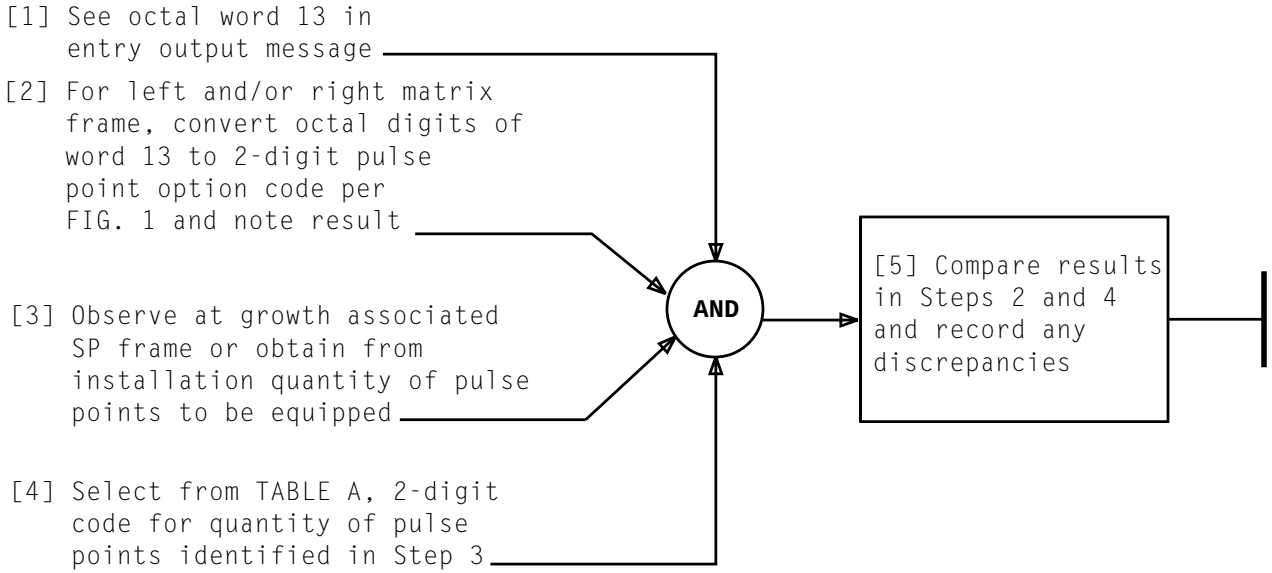
SUMMARY

Convert octal digits representing pulse point option of entry output word to binary. Determine actual growth associated frame pulse point equipage and compare actual equipage with entry output data using TABLE A. Record any discrepancy.

TABLE A	
2-DIGIT CODE	**PULSE POINT OPTION**
00	No pulse points
01	256 pulse points
10	512 pulse points
11	Invalid



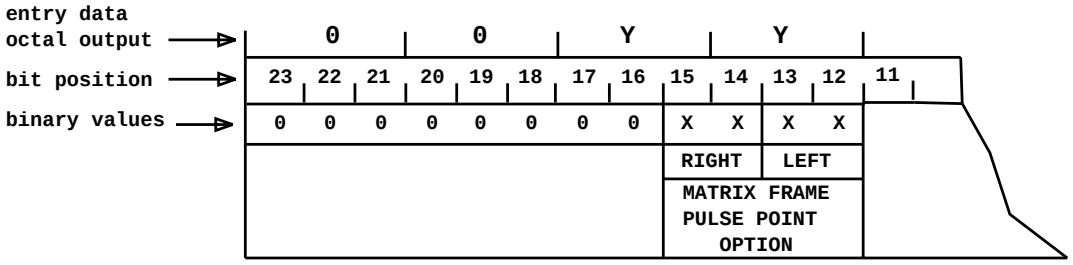


FIG. 1 — Partial Entry Data Word 13 Layout

VERIFY GROWTH SP PULSE POINT OPTION

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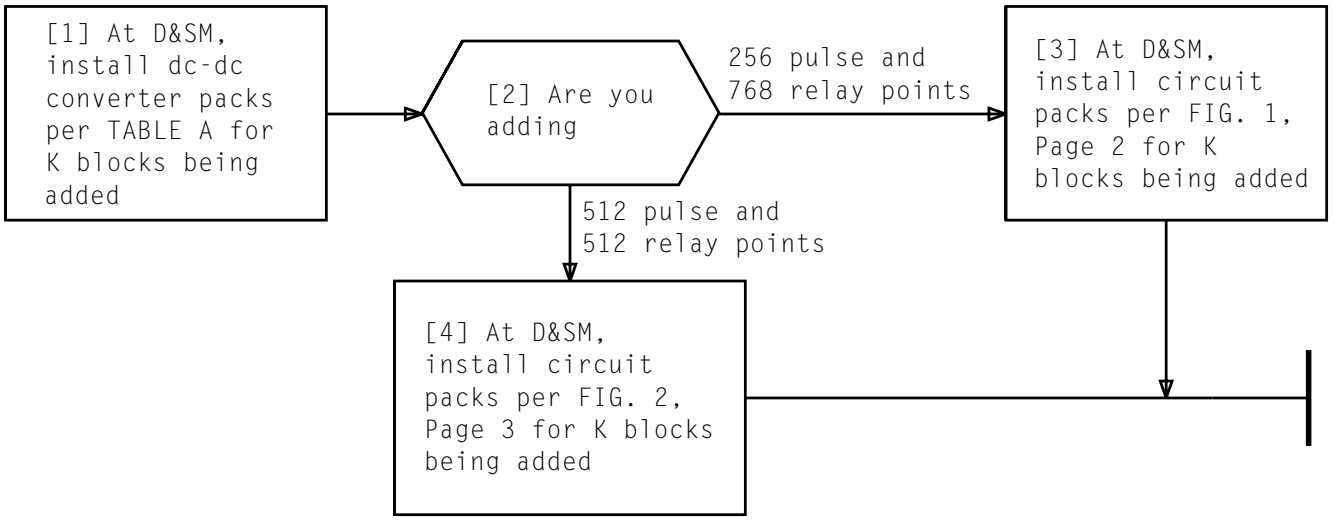

TABLE A

K BLOCK	DESIGNATION	DC-DC CONVERTER J87407A-2,L2 CONVERTER LOCATED IN POSITON SHOWN							
K4 (MDN 0)	LEFT D&SM LOC	212-36	212-39	212-42	212-45	217-36	217-39	217-42	217-45
K5 (MDN 1)	RIGHT D&SM LOC	712-36	712-39	712-42	717-45	717-36	717-39	717-42	717-45

INSTALL DC-DC CONVERTER PACKS AND MISCELLANEOUS SD CIRCUIT PACKS AT D&SM FRAME

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J4A003DC-1 DET. A

4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*FC78	*FC78			FA605	FA605		FA605	FA605		FA605	FA605		FA605	FA605	
LEVEL															

J4A003DC-1 DET. B

26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
		FA605	FA605		FA605	FA605		FA605	FA605		FA605	FA605		*FC78	*FC78
LEVEL															

BAY 1 or 6

J4A003DC-1 DET. A

4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*FC78	*FC78			FA605	FA605		FA605	FA605		FA605	FA605		FA605	FA605	
LEVEL															

J4A003DC-1 DET. D

26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
		FA610	FA610		FA610	FA610		FA610	FA610		FA610	FA610		*FC78	*FC78
LEVEL															

BAY 2 or 7

* **FC78** circuit packs are installed with initial installation of frame

FIG. 1 — D&SM Circuit Pack Location (See TABLE B)

TABLE B

K BLOCK	EQUIPMENT LOCATION	
	LEFT D&SM	RIGHT D&SM
K4 (MDN 0)	145 and 245	-
K5 (MDN 1)	-	645 and 745

INSTALL DC-DC CONVERTER PACKS AND MISCELLANEOUS SD CIRCUIT PACKS AT D&SM

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J4A003DC-1 DET. A															
4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*FC78	*FC78			FA605	FA605		FA605	FA605		FA605	FA605		FA605	FA605	
LEVEL															

J4A003DC-1 DET. B															
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
		FA605	FA605		FA605	FA605		FA605	FA605		FA605	FA605		*FC78	*FC78
LEVEL															

BAY 1 or 6

J4A003DC-1 DET. C															
4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*FC78	*FC78			FA610	FA610		FA610	FA610		FA610	FA610		FA610	FA610	
LEVEL															

J4A003DC-1 DET. D															
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
		FA610	FA610		FA610	FA610		FA610	FA610		FA610	FA610		*FC78	*FC78
LEVEL															

BAY 2 or 7

* **FC78** circuit packs are installed with initial installation of frame

FIG. 2 — D&SM Circuit Pack Location (See TABLE C)

TABLE C

K BLOCK	EQUIPMENT LOCATION	
	LEFT D&SM	RIGHT D&SM
K4 (MDN 0)	145 and 245	-
K5 (MDN 1)	-	645 and 745

INSTALL DC-DC CONVERTER PACKS AND MISCELLANEOUS SD CIRCUIT PACKS AT D&SM

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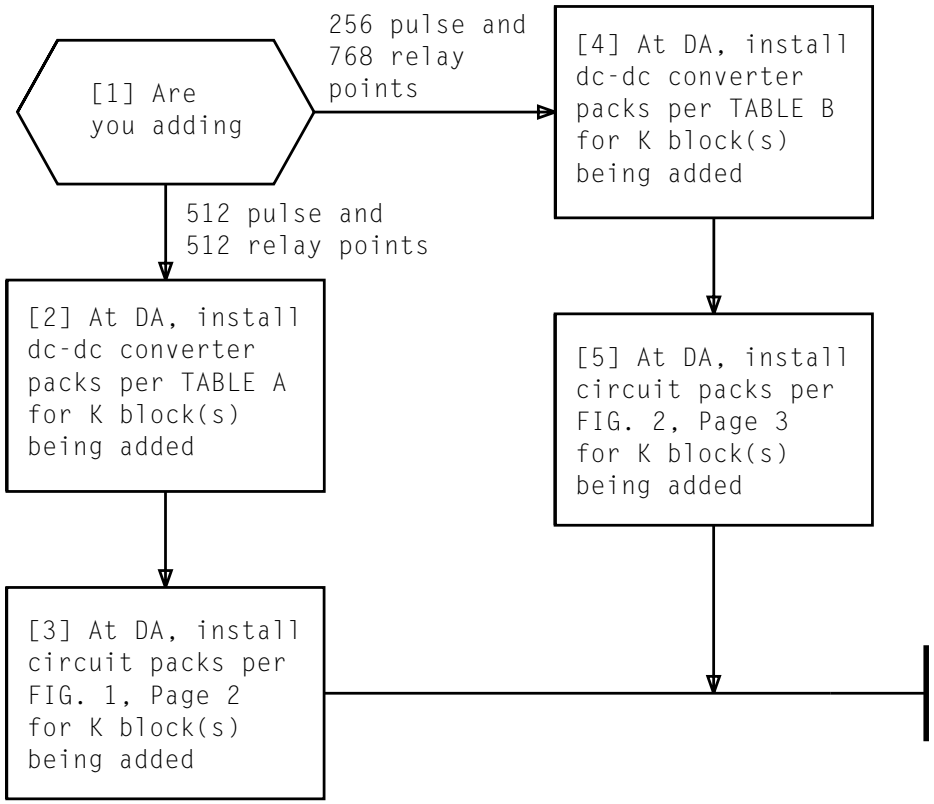

TABLE B

K BLOCK	DC-DC CONVERTER		
	DESIGNATION	J87407A-2, L2 CONVERTER LOCATED IN POSITION SHOWN	
K4 (MDN 0)	Left DA LOC	012 — 50	012 — 56
K5 (MDN 1)	Right DA LOC	512 — 50	512 — 56

TABLE A

K BLOCK	DC-DC CONVERTER				
	DESIGNATION	J87407A-2, L2 CONVERTER LOCATED IN POSITION SHOWN			
K4 (MDN 0)	Left DA LOC	012 — 50	012 — 56	017 — 50	017 — 56
K5 (MDN 1)	Right DA LOC	512 — 50	512 — 56	517 — 50	517 — 56

INSTALL DC-DC CONVERTER PACKS AND MISCELLANEOUS SD CIRCUIT PACKS AT DA FRAME

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J4A003EB-1 DET. A								
2P	4	5P	7	8P	10	11P	13	14P
FB229	FB229	FB229	FB229	FB229	FB229	FB229	FB229	FC78
LEVEL X68			PULSE POINT APPLIQUE					

J4A003EB-1 DET. B								
17P	19	20P	22	23P	25	25P	28	29P
FB229	FB229	FB229	FB229	FB229	FB229	FB229	FB229	FB231
LEVEL X68			PULSE POINT APPLIQUE					

J4A003EB-1 DET. A								
2P	4	5P	7	8P	10	11P	13	14P
FB229	FB229	FB229	FB229	FB229	FB229	FB229	FB229	FC78
LEVEL X64			PULSE POINT APPLIQUE					

J4A003EB-1 DET. B								
17P	19	20P	22	23P	25	25P	28	29P
FB229	FB229	FB229	FB229	FB229	FB229	FB229	FB229	FB231
LEVEL X64			PULSE POINT APPLIQUE					

J4A003EA-1 DET. A								
2P	4	5P	7	8P	10	11P	13	14P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X60			RELAY POINT APPLIQUE					

J4A003EA-1 DET. B								
21P	23	24P	25	27P	29	30P	32	33P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X60			RELAY POINT APPLIQUE					

J4A003EA-1 DET. A								
2P	4	5P	7	8P	10	11P	13	14P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X56			RELAY POINT APPLIQUE					

J4A003EA-1 DET. B								
21P	23	24P	25	27P	29	30P	32	33P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X56			RELAY POINT APPLIQUE					

J4A003EB-1 DET. C								
33P	35	36P	38	39P	41	42P	44	45P
FB229	FB229	FB229	FB229	FB229	FB229	FB229	FB229	FC78
LEVEL X68			PULSE POINT APPLIQUE					

J4A003EB-1 DET. D								
48P	50	51P	53	54P	56	57P	59	60P
FB229	FB229	FB229	FB229	FB229	FB229	FB229	FB229	FB231
LEVEL X68			PULSE POINT APPLIQUE					

J4A003EB-1 DET. C								
33P	35	36P	38	39P	41	42P	44	45P
FB229	FB229	FB229	FB229	FB229	FB229	FB229	FB229	FC78
LEVEL X64			PULSE POINT APPLIQUE					

J4A003EB-1 DET. D								
48P	50	51P	53	54P	56	57P	59	60P
FB229	FB229	FB229	FB229	FB229	FB229	FB229	FB229	FB231
LEVEL X64			PULSE POINT APPLIQUE					

J4A003EA-1 DET. C								
38P	40	41P	43	44P	46	47P	49	50P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X60			RELAY POINT APPLIQUE					

J4A003EA-1 DET. D								
57P	59	60P	62	63P	65	66P	68	69P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X60			RELAY POINT APPLIQUE					

J4A003EA-1 DET. C								
38P	40	41P	43	44P	46	47P	49	50P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X56			RELAY POINT APPLIQUE					

J4A003EA-1 DET. D								
57P	59	60P	62	63P	65	66P	68	69P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X56			RELAY POINT APPLIQUE					

LEGEND:
X = 0 (LEFT DA) FOR
K BLOCK 4 (MDN 0)

= 5 (RIGHT DA) FOR
K BLOCK 5 (MDN 1)

FIG. 1 — DA Circuit Pack Locations

INSTALL DC-DC CONVERTER PACKS AND MISCELLANEOUS SD CIRCUIT PACKS AT DA FRAME

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J4A003EB-1 DET. A								
2P	4	5P	7	8P	10	11P	13	14P
FB229	FB229	FB229	FB229	FB229	FB229	FB229	FB229	FC78
LEVEL X68			PULSE POINT APPLIQUE					

J4A003EB-1 DET. B								
17P	19	20P	22	23P	25	25P	28	29P
FB229	FB229	FB229	FB229	FB229	FB229	FB229	FB229	FB231
LEVEL X68			PULSE POINT APPLIQUE					

J4A003EA-1 DET. A								
2P	4	5P	7	8P	10	11P	13	14P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X64			RELAY POINT APPLIQUE					

J4A003EA-1 DET. B								
21P	23	24P	25	27P	29	30P	32	33P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X64			RELAY POINT APPLIQUE					

J4A003EA-1 DET. A								
2P	4	5P	7	8P	10	11P	13	14P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X60			RELAY POINT APPLIQUE					

J4A003EA-1 DET. B								
21P	23	24P	25	27P	29	30P	32	33P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X60			RELAY POINT APPLIQUE					

J4A003EA-1 DET. A								
2P	4	5P	7	8P	10	11P	13	14P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X56			RELAY POINT APPLIQUE					

J4A003EA-1 DET. B								
21P	23	24P	25	27P	29	30P	32	33P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X56			RELAY POINT APPLIQUE					

J4A003EB-1 DET. C								
33P	35	36P	38	39P	41	42P	44	45P
FB229	FB229	FB229	FB229	FB229	FB229	FB229	FB229	FC78
LEVEL X68			PULSE POINT APPLIQUE					

J4A003EB-1 DET. D								
48P	50	51P	53	54P	56	57P	59	60P
FB229	FB229	FB229	FB229	FB229	FB229	FB229	FB229	FB231
LEVEL X68			PULSE POINT APPLIQUE					

J4A003EA-1 DET. C								
38P	40	41P	43	44P	46	47P	49	50P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X64			RELAY POINT APPLIQUE					

J4A003EA-1 DET. D								
57P	59	60P	62	63P	65	66P	68	69P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X64			RELAY POINT APPLIQUE					

J4A003EA-1 DET. C								
38P	40	41P	43	44P	46	47P	49	50P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X60			RELAY POINT APPLIQUE					

J4A003EA-1 DET. D								
57P	59	60P	62	63P	65	66P	68	69P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X60			RELAY POINT APPLIQUE					

J4A003EA-1 DET. C								
38P	40	41P	43	44P	46	47P	49	50P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X56			RELAY POINT APPLIQUE					

J4A003EA-1 DET. D								
57P	59	60P	62	63P	65	66P	68	69P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL X56			RELAY POINT APPLIQUE					

LEGEND:
X = 0 (LEFT DA) FOR
K BLOCK 4 (MDN 0)

= 5 (RIGHT DA) FOR
K BLOCK 5 (MDN 1)

FIG. 2 — DA Circuit Pack Locations

INSTALL DC-DC CONVERTER PACKS AND MISCELLANEOUS SD CIRCUIT PACKS AT DA FRAME

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[1] Determine from company order member number of SP to which K block(s) is being added and K block(s) to be added. See TABLE A

[2] See FIG. 1, Page 2 and FIG. 2, Page 3 for bay numbering sequence and K block(s) location

[3] Select 64 **FB230** circuit packs for TSN K block(s) being added. Read NOTE

[4] Select equipment per TABLE B for TDN K block(s) being added. Read NOTE 1

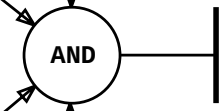

TABLE A

K BLOCK NUMBER	SP TRANSLATION EQUIVALENT
K0	Universal Scan Block 0 (TSN 0)
K1	Universal Scan Block 1 (TSN 1)
K2	Universal Scan Block 2 (TSN 2)
K3	Universal Scan Block 3 (TSN 3)
K0	Universal SD Block 0 (TDN 0)
K1	Universal SD Block 1 (TDN 1)
K2	Universal SD Block 2 (TDN 2)
K3	Universal SD Block 3 (TDN 3)

TABLE B

K BLOCK		D&SM				DA	
LEFT FRAME	RIGHT FRAME	CIRCUIT PACKS		DC-DC CONVERTERS		CIRCUIT PACKS	
		TYPE	QTY	TYPE	QTY	TYPE	QTY
K0 TDN 0	K1 TDN 1	**FA605**	32	J87407A-2, L2	8	**FB228**	128
K2 TDN 2	K3 TDN 3	**FA605**	32	J87407A-2, L2	8	**FB228**	128

NOTE 1
Quantities indicated are for one K block. If more than one TSN and one TDN K block is being added on this order, quantities are to be adjusted as required

SELECT UNIVERSAL SCAN AND SD EQUIPMENT AND DETERMINE GROWTH K BLOCK LOCATIONS

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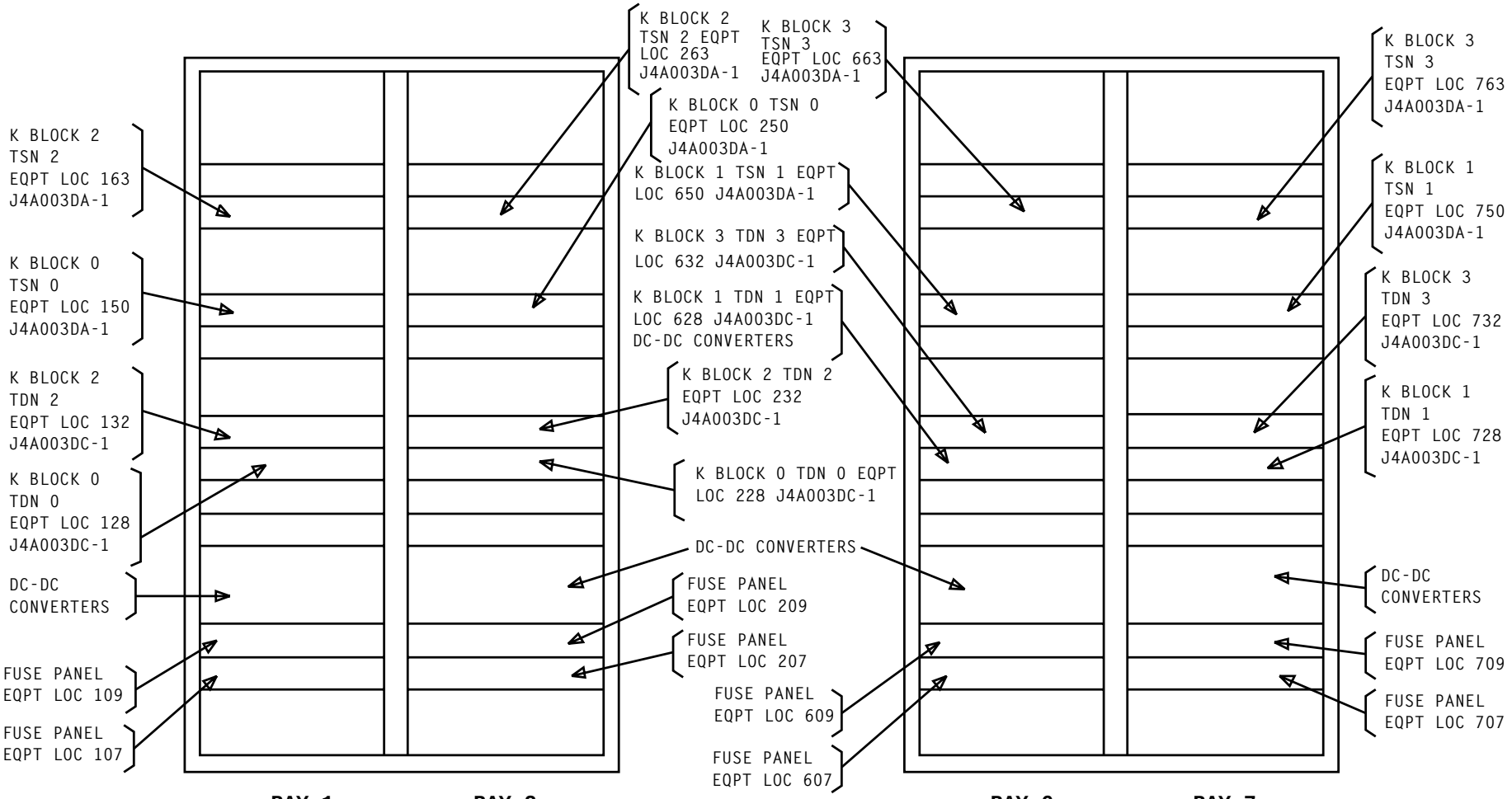

Left Distributor and Scanner Matrix (D&SM) Frame

Right Distributor and Scanner Matrix (D&SM) Frame

FIG. 1

SELECT UNIVERSAL SCAN AND SD EQUIPMENT AND DETERMINE GROWTH K BLOCK LOCATIONS

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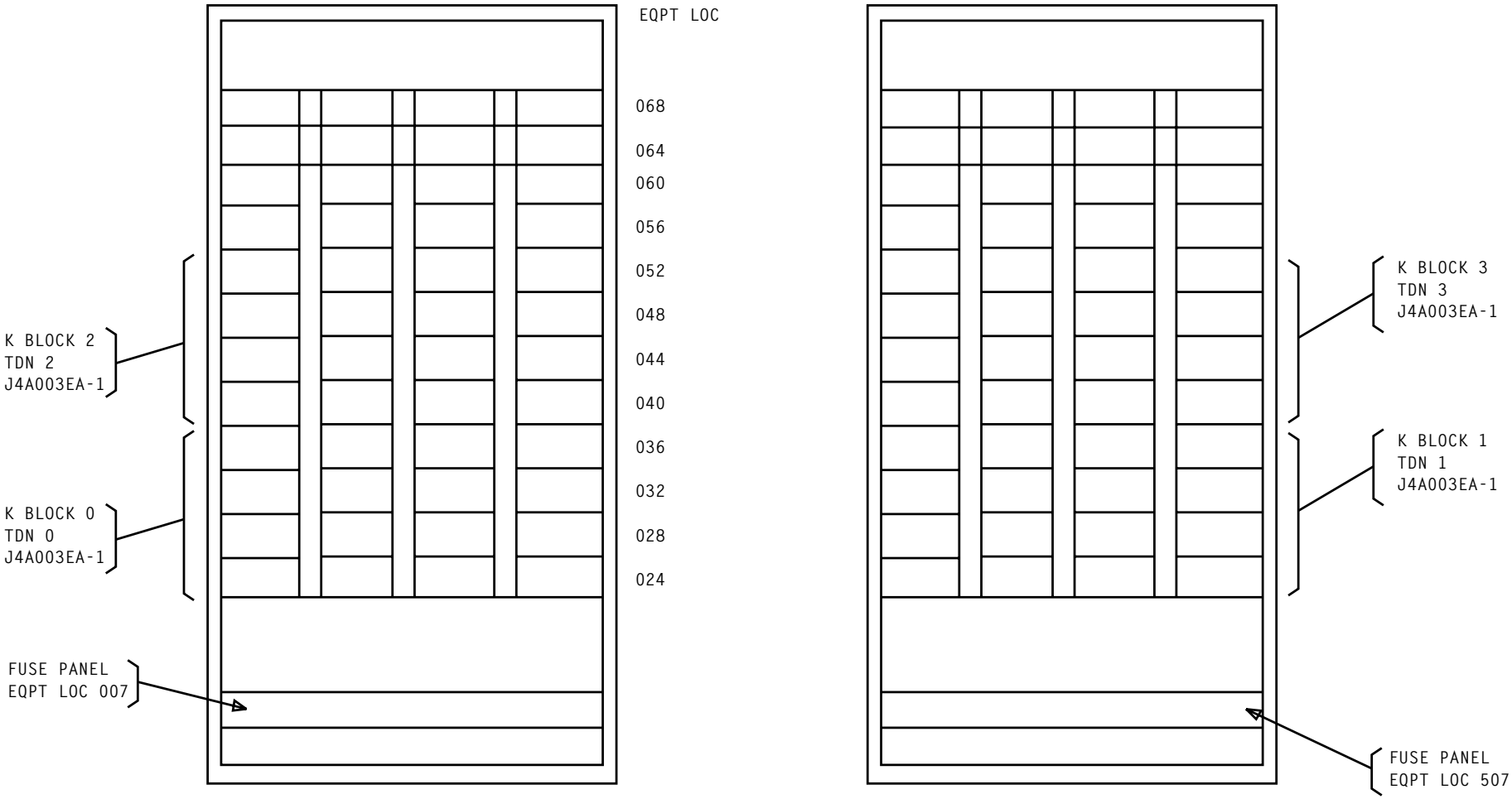

BAY 0

Left Distributor Applique (DA) Frame

BAY 5

Right Distributor Applique (DA) Frame

FIG. 2

SELECT UNIVERSAL SCAN AND SD EQUIPMENT AND DETERMINE GROWTH K BLOCK LOCATIONS

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[1] At D&SM Frame, install dc-dc converter packs per TABLE A for K block(s) being added

[2] At D&SM Frame, install circuit packs per FIG. 1 and TABLE B, Page 2 for K block(s) being added

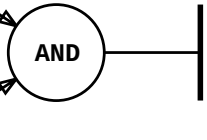

TABLE A

K BLOCK	DC-DC CONVERTER								
	DESIGNATION	J87407A-2, L2 CONVERTER LOCATED IN POSITION SHOWN							
K0 (TDN 0)	LEFT D&SM LOC	112-36	112-39	112-42	112-45	212-12	212-15	212-18	212-21
K1 (TDN 1)	RIGHT D&SM LOC	612-36	612-39	612-42	612-45	712-12	712-15	712-18	712-21
	DESIGNATION	J87407A-2, L2 CONVERTER LOCATED IN POSITION SHOWN							
K2 (TDN 2)	LEFT D&SM LOC	212-24	212-27	212-30	212-33	217-24	217-27	217-30	217-33
K3 (TDN 3)	RIGHT D&SM LOC	712-24	712-27	712-30	712-33	717-24	717-27	717-30	717-33

INSTALL DC-DC CONVERTER PACKS AND UNIVERSAL SD CIRCUIT PACKS AT D&SM FRAME

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J4A003DC-1 DET. A

4	5	6	7	8	9	10	11	23	13	14	15	16	17	18	19
*FC78	*FC78			FA605	FA605		FA605	FA605		FA605	FA605		FA605	FA605	
LEVEL							DISTRIBUTOR MATRIX								

J4A003DC-1 DET. B

26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
		FA605	FA605		FA605	FA605		FA605	FA605		FA605	FA605		*FC78	*FC78
LEVEL							DISTRIBUTOR MATRIX								

BAY 1 or 6

J4A003DC-1 DET. A

4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*FC78	*FC78			FA605	FA605		FA605	FA605		FA605	FA605		FA605	FA605	
LEVEL							DISTRIBUTOR MATRIX								

J4A003DC-1 DET. B

26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
		FA605	FA605		FA605	FA605		FA605	FA605		FA605	FA605		*FC78	*FC78
LEVEL							DISTRIBUTOR MATRIX								

BAY 2 or 7

* **FC78** circuit packs are installed with initial installation of frame

TABLE B

K BLOCK	EQUIPMENT LOCATION	
	LEFT D&SM	RIGHT D&SM
K0 (TDN 0)	128 and 228	—
K1 (TDN 1)	—	628 and 728
K2 (TDN 2)	132 and 232	—
K3 (TDN 3)	—	632 and 732

FIG. 1 — D&SM Circuit Pack Location (See TABLE B)

INSTALL DC-DC CONVERTER PACKS AND UNIVERSAL SD CIRCUIT PACKS AT D&SM FRAME

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At Distributor Applique (DA) frame:

1. Install universal SD circuit packs for SD K block(s) being added, per FIG. 1

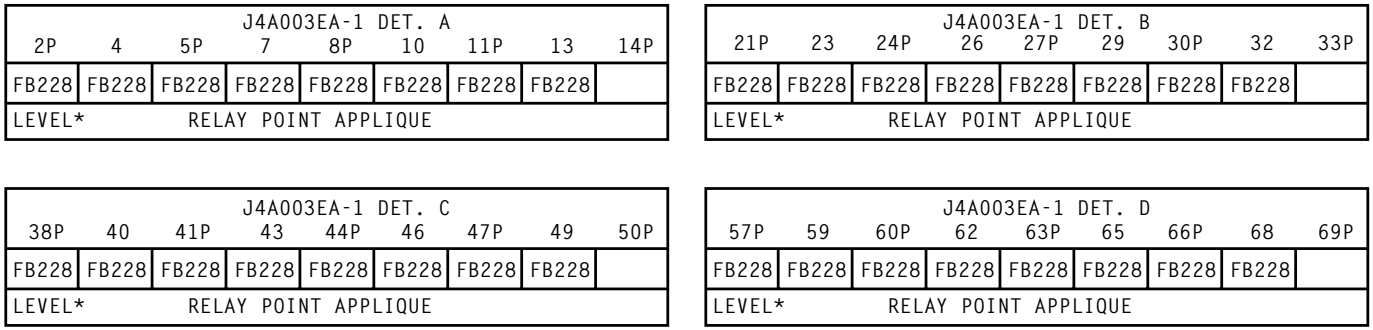

FIG. 1 — DA Circuit Pack Locations (See TABLE A)

TABLE A

K BLOCK	*EQUIPMENT LOCATIONS	
	LEFT DA	RIGHT DA
K0 (TDN 0)	036 032 028 024	—
K1 (TDN 1)	—	536 532 528 524
K2 (TDN 2)	052 048 044 040	—
K3 (TDN 3)	—	552 548 544 540

INSTALL UNIVERSAL SD CIRCUIT PACKS AT DA FRAME

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[1] Read CAUTION 1. At SP control frame terminal strips B and E [FIG. 1] complete strapping per TABLE A using 26-gauge wire for K block(s) being added

TABLE A

K BLOCK	TERMINAL STRIP B BAY 3		TERMINAL STRIP B BAY 4	
	FROM TERMINAL	TO TERMINAL	FROM TERMINAL	TO TERMINAL
0 (TSN 0)	042	052	042	052
1 (TSN 1)	043	053	043	053
2 (TSN 2)	044	054	044	054
3 (TSN 3)	045	055	045	055
4 (MSN 0)	046	056	046	056
5 (MSN 1)	047	057	047	057

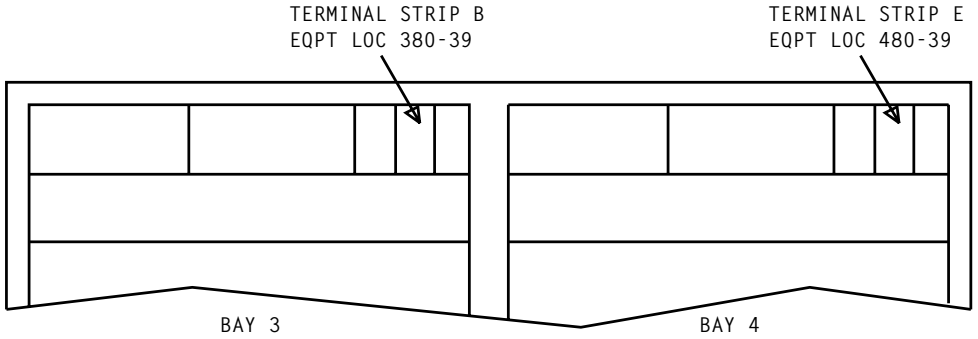

FIG. 1 — SP Control Frame — Front View

CAUTION 1
Strapping connections must be made only for those K blocks being added at this time

INSTALL SCAN POINT STRAPS

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[1] Determine from company order member number of SP to which K block(s) is to be added and K block(s) to be added. See TABLE A

[2] See FIG. 1, Page 2 for bay numbering sequence and K block location

[3] Select 64 **FB230** circuit packs for each K block to be added

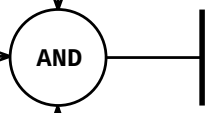

TABLE A

K BLOCK NUMBER	SP TRANSLATION EQUIVALENT
K0	Universal Scan Block 0 (TSN 0)
K1	Universal Scan Block 1 (TSN 1)
K2	Universal Scan Block 2 (TSN 2)
K3	Universal Scan Block 3 (TSN 3)
K4	Miscellaneous Scan Block 0 (MSN 0)
K5	Miscellaneous Scan Block 1 (MSN 1)

SELECT UNIVERSAL SCAN AND/OR MISCELLANEOUS SCAN EQUIPMENT AND DETERMINE GROWTH K BLOCK LOCATION(S)

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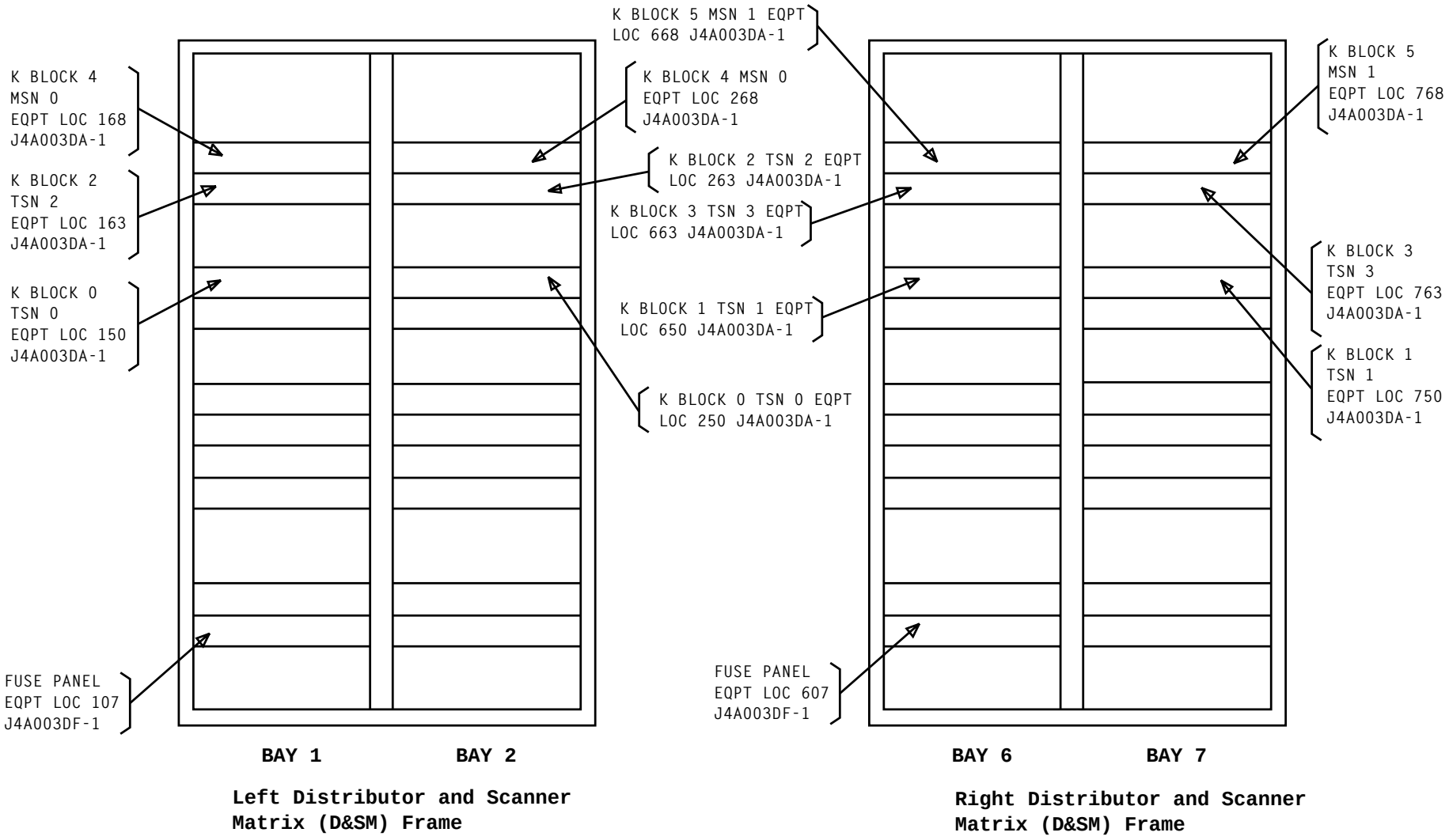

FIG. 1

SELECT UNIVERSAL SCAN AND/OR MISCELLANEOUS SCAN EQUIPMENT AND DETERMINE GROWTH K BLOCK LOCATION(S)

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[1] Determine from company order member number of SP to which K block(s) is to be added and K block(s) to be added. See TABLE A

[2] See FIG. 1, Page 2 and FIG. 2, Page 3 for bay numbering sequence and K block(s) location

AND

[4] Select equipment per TABLE B for K block(s) being added. Read NOTE 1

TABLE A

K BLOCK NUMBER	SP TRANSLATION EQUIVALENT
K0	Universal SD Block 0 (TDN 0)
K1	Universal SD Block 1 (TDN 1)
K2	Universal SD Block 2 (TDN 2)
K3	Universal SD Block 3 (TDN 3)
K4	Miscellaneous SD Block 0 (MDN 0)
K5	Miscellaneous SD Block 1 (MDN 1)

TABLE B

K BLOCK			D&SM				DA			
LEFT FRAME	RIGHT FRAME	OPTIONS	CIRCUIT PACKS		DC-DC CONVERTERS		CIRCUIT PACKS		FUSE	
			TYPE	QTY	TYPE	QTY	TYPE	QTY	TYPE	QTY
K0 TDN 0	K1 TDN 1	All relay	**FA605**	32	J87407A-2, L2	8	**FB228**	128	None	—
K2 TDN 2	K3 TDN 3	All relay	**FA605**	32	J87407A-2, L2	8	**FB228**	128	None	—
K4 MDN 0	K5 MDN 1	All relay	**FA605**	32	J87407A-2, L2	8	**FB228**	128	**70D**	4

NOTE 1
Quantities shown in TABLE B are for one K block. If more than one K block is being added on this order, quantities are to be adjusted as required

SELECT UNIVERSAL AND/OR MISCELLANEOUS (RELAY ONLY) SD EQUIPMENT AND DETERMINE GROWTH K BLOCK LOCATIONS

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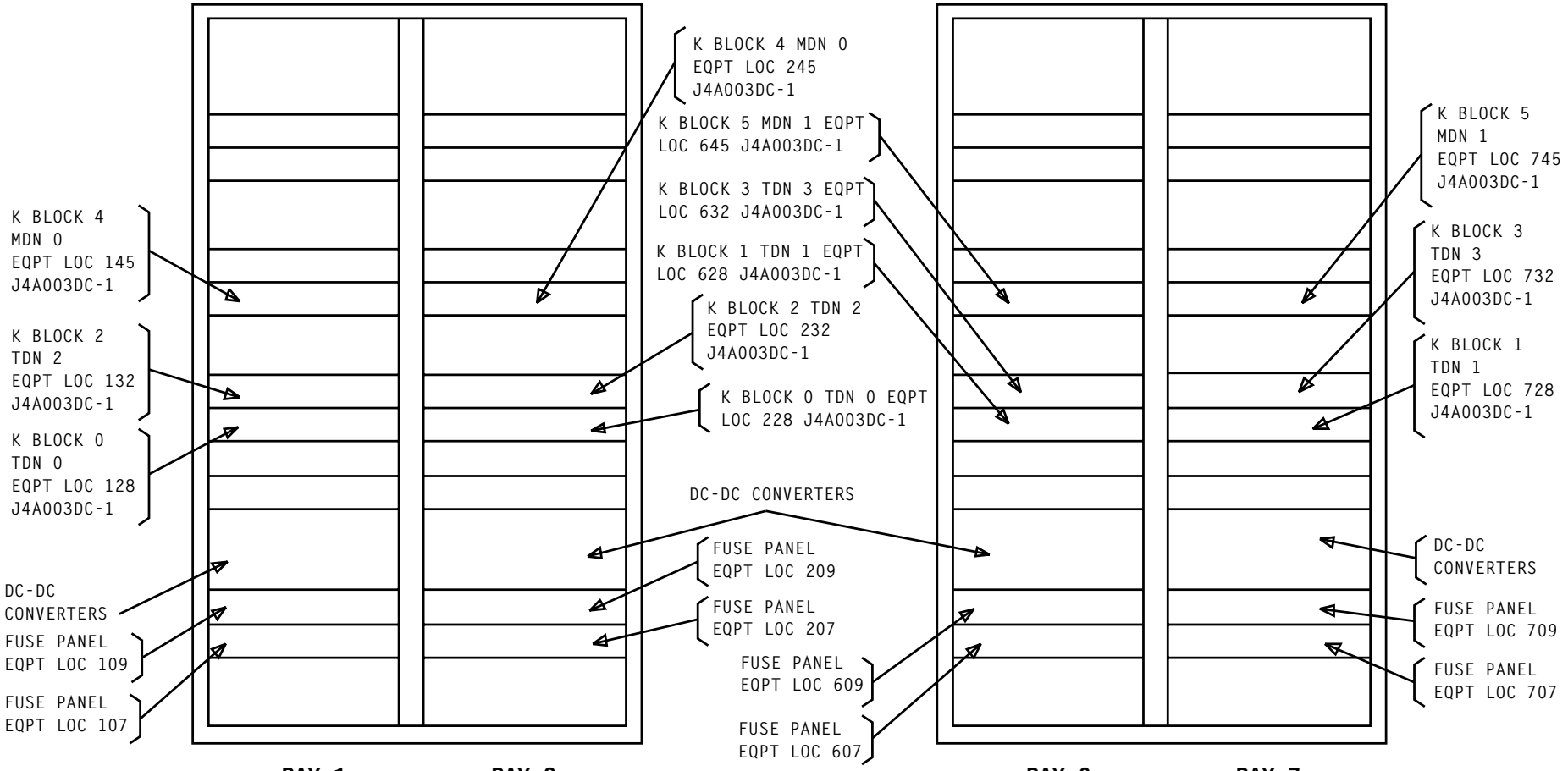

FIG. 1

SELECT UNIVERSAL AND/OR MISCELLANEOUS (RELAY ONLY) SD EQUIPMENT AND DETERMINE GROWTH K BLOCK LOCATIONS

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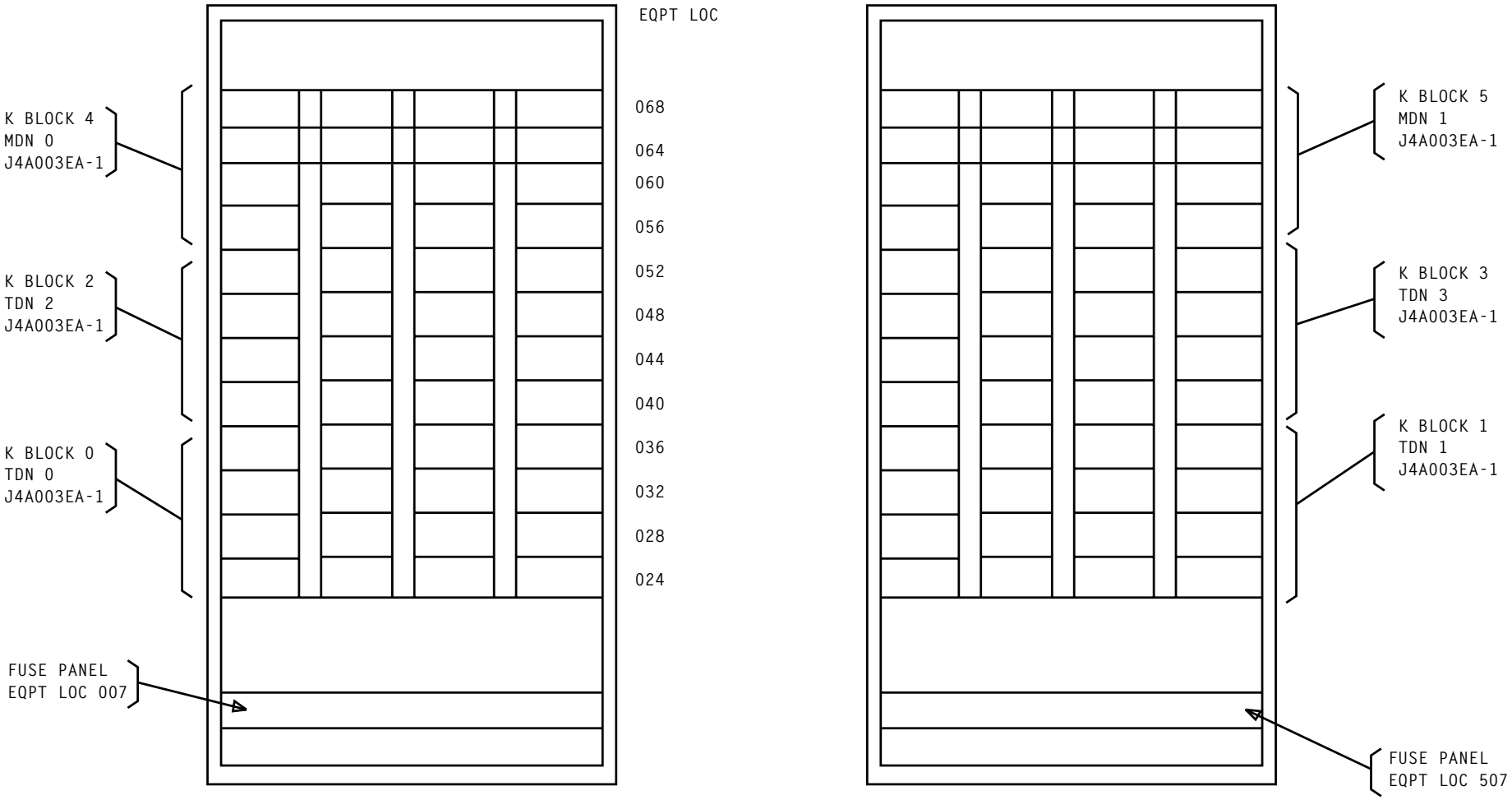

BAY 0

Left Distributor Applique (DA) Frame

BAY 5

Right Distributor Applique (DA) Frame

FIG. 2

SELECT UNIVERSAL AND/OR MISCELLANEOUS (RELAY ONLY) SD EQUIPMENT AND DETERMINE GROWTH K BLOCK LOCATIONS

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[1] At D&SM, install dc-dc converters per TABLE A for K block(s) being added

[2] At D&SM install circuit packs per FIG. 1, Page 2 for K block(s) being added

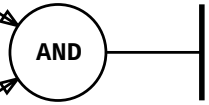

TABLE A

K BLOCK	DC-DC CONVERTER								
	DESIGNATION	**J87407A-2, L2 CONVERTER LOCATED IN POSITION SHOWN**							
K0 (TDN 0)	LEFT D&SM LOC	112-36	112-39	112-42	112-45	212-12	212-15	212-18	212-21
K1 (TDN 1)	RIGHT D&SM LOC	612-36	612-39	612-42	612-45	712-12	712-15	712-18	712-21
	DESIGNATION	**J87407A-2, L2 CONVERTER LOCATED IN POSITION SHOWN**							
K2 (TDN 2)	LEFT D&SM LOC	212-24	212-27	212-30	212-33	217-24	217-27	217-30	217-33
K3 (TDN 3)	RIGHT D&SM LOC	712-24	712-27	712-30	712-33	717-24	717-27	717-30	717-33
	DESIGNATION	**J87407A-2, L2 CONVERTER LOCATED IN POSITION SHOWN**							
K4 (MDN 0)	LEFT D&SM LOC	212-36	212-39	212-42	212-45	217-36	217-39	217-42	217-45
K5 (MDN 1)	RIGHT D&SM LOC	712-36	712-39	712-42	712-45	717-36	717-39	717-42	717-45

INSTALL DC-DC CONVERTER PACKS AND UNIVERSAL AND/OR MISCELLANEOUS (RELAY ONLY) SD CIRCUIT PACKS AT D&SM

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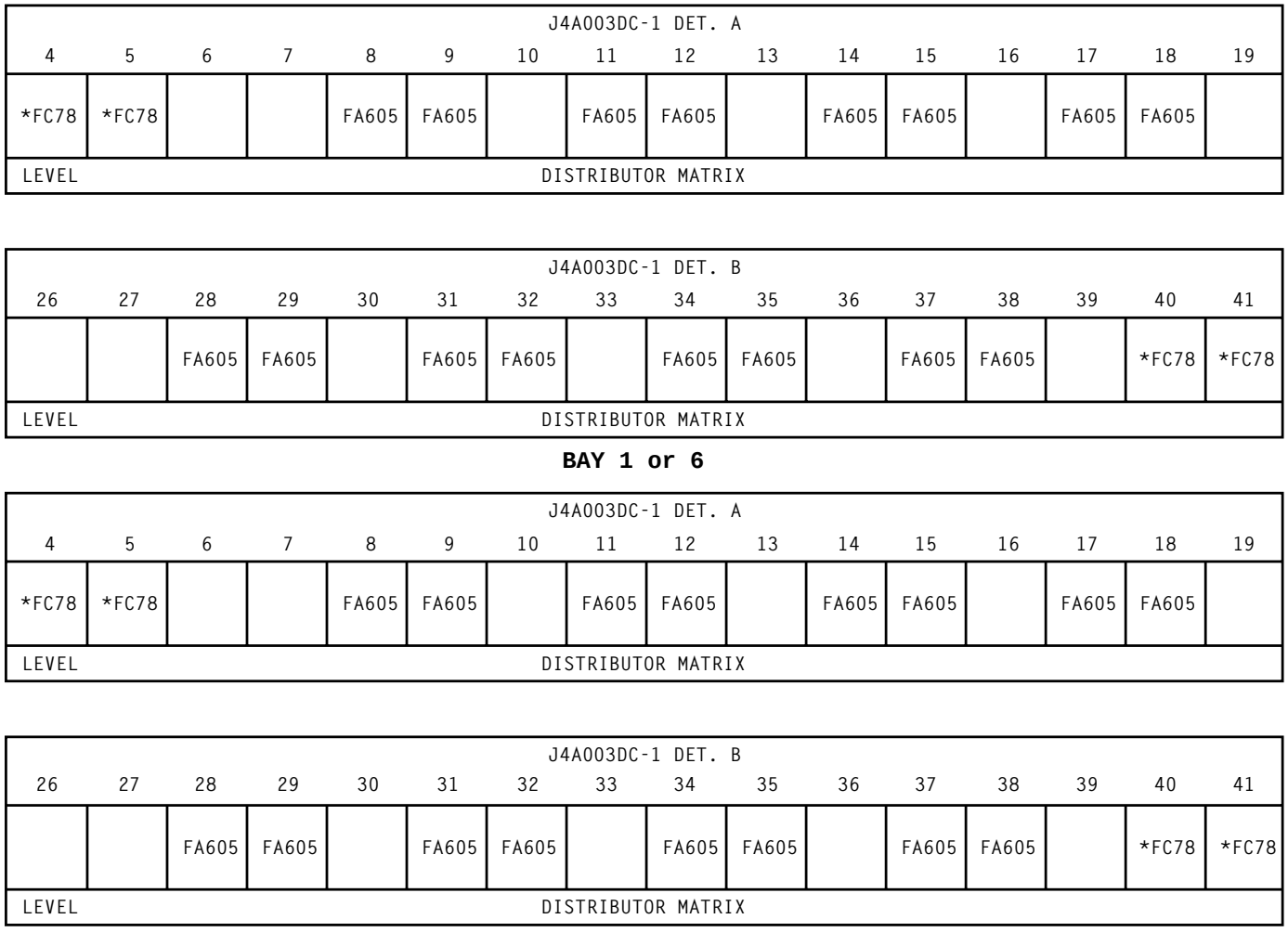

* **FC78** Circuit packs are installed with initial installation of frame

TABLE B

K BLOCK	EQUIPMENT LOCATION	
	LEFT D&SM	RIGHT D&SM
K0 (TDN 0)	128 and 228	—
K1 (TDN 1)	—	628 and 728
K2 (TDN 2)	132 and 232	—
K3 (TDN 3)	—	632 and 732
K4 (MDN 0)	145 and 245	—
K5 (MDN 1)		645 and 745

FIG. 1 — D&SM Circuit Pack Location (See TABLE B)

INSTALL DC-DC CONVERTER PACKS AND UNIVERSAL AND/OR MISCELLANEOUS (RELAY ONLY) SD CIRCUIT PACKS AT D&SM

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At Distributor Applique (DA) frame:

1. Install universal and/or miscellaneous (relay only) SD circuit packs for SD K block(s) being added, per FIG. 1

J4A003EA-1 DET. A								
2P	4	5P	7	8P	10	11P	13	14P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL*	RELAY POINT APPLIQUE							

J4A003EA-1 DET. B								
21P	23	24P	26	27P	29	30P	32	33P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL*	RELAY POINT APPLIQUE							

J4A003EA-1 DET. C								
38P	40	41P	43	44P	46	47P	49	50P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL*	RELAY POINT APPLIQUE							

J4A003EA-1 DET. D								
57P	59	60P	62	63P	65	66P	68	69P
FB228	FB228	FB228	FB228	FB228	FB228	FB228	FB228	
LEVEL*	RELAY POINT APPLIQUE							

BAY 0 OR 5

FIG. 1 — DA Circuit Pack Locations (See TABLE A)

TABLE A

K BLOCK	*EQUIPMENT LOCATIONS	
	LEFT DA	RIGHT DA
K0 (TDN 0)	036 032 028 024	—
K1 (TDN 1)	—	536 532 528 524
K2 (TDN 2)	052 048 044 040	—
K3 (TDN 3)	—	552 548 544 540
K4 (MDN 0)	068 064 060 056	—
K5 (MDN 1)	—	568 564 560 556

INSTALL UNIVERSAL AND/OR MISCELLANEOUS (RELAY ONLY) SD CIRCUIT PACKS AT DA FRAME

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At Distributor and Scanner Matrix (D&SM) frame:

1. Install universal scan point circuit packs for scan K block(s) being added, per FIG. 1

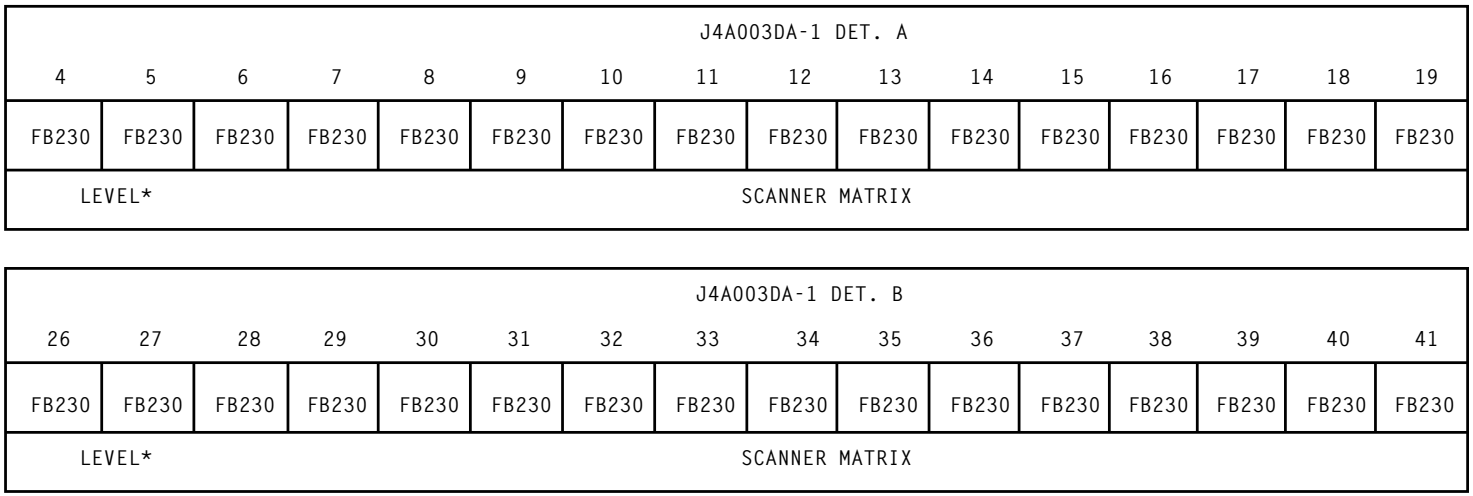

TABLE A

K BLOCK	*EQUIPMENT LOCATION	
	LEFT D&SM	RIGHT D&SM
K0 (TSN 0)	150 and 250	—
K1 (TSN 1)	—	650 and 750
K2 (TSN 2)	163 and 263	—
K3 (TSN 3)	—	663 and 763

FIG. 1 — D&SM Scan Point Circuit Pack Locations (See TABLE A)

INSTALL UNIVERSAL SCAN POINT CIRCUIT PACKS

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At Distributor and Scanner Matrix (D&SM) frame:

1. Install universal and/or miscellaneous scan point circuit packs for scan K block(s) being added, per FIG. 1

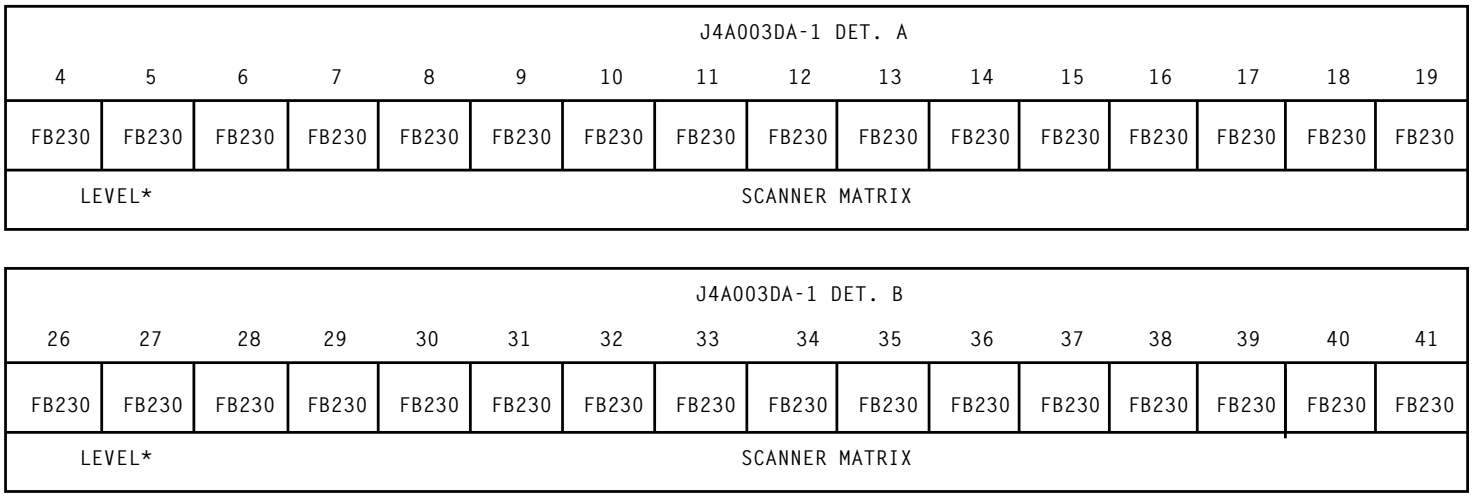

TABLE A

K BLOCK	*EQUIPMENT LOCATIONS	
	LEFT D&SM	RIGHT D&SM
K0 (TSN 0)	150 and 250	—
K1 (TSN 1)	—	650 and 750
K2 (TSN 2)	163 and 263	—
K3 (TSN 3)	—	663 and 763
K4 (MSN 0)	168 and 268	—
K5 (MSN 1)	—	668 and 768

FIG. 1 — D&SM Scan Point Circuit Pack Locations (See TABLE A)

INSTALL UNIVERSAL AND/OR MISCELLANEOUS SCAN POINT CIRCUIT PACKS

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[1] Note contents of word 10 in entry output message containing version data to be verified

[2] For each controller and/or submember convert octal digits to version number per Fig. 1 and record

[3] Obtain from Installation LDI issue numbers for growth associated SP2 controllers and/or submember

AND

Page 2

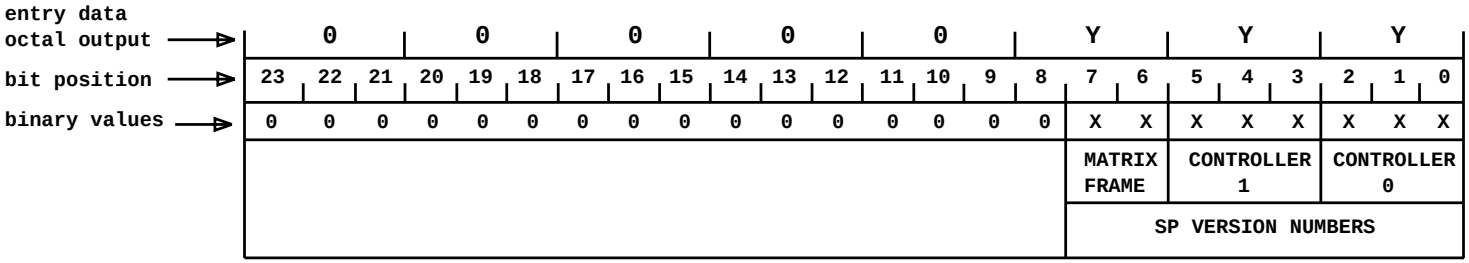

FIG. 1 — Word Layout For SP2 Controller and Submember version numbers

VERIFY SP2 CONTROLLER AND/OR SUBMEMBER VERSION NUMBERS

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[4] Using TABLE A, select version numbers associated with LDI issues in Step 3. See NOTE 1

[5] Compare version numbers in Step 4 with version numbers calculated in Step 2

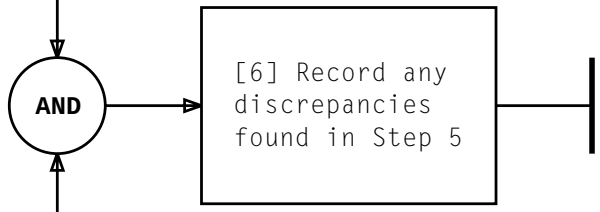

TABLE A

UNIT	SD NUMBER	MEMBER VERSION NUMBER					
		0	1	2	3	4	5
SP2 Controller	4A067-01	*1A	2A	2C	2D	7A	8A
	4A066-01	1A	2A	2A	2A	2A	2A
	4A065-01	1A	2B	2E	2E	2E	2E
SP2 Matrix	4A068-01	1A	—	—	—	—	—
	4A069-01	1A	—	—	—	—	—

*LDI Issue Numbers

NOTE 1
Appropriate support organization may be consulted for current version information if not listed in TABLE A

VERIFY SP2 CONTROLLER AND/OR SUBMEMBER VERSION NUMBERS

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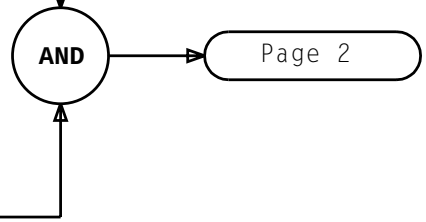
[1] Determine miscellaneous point block being added using TABLE A



[2] Enter activate message per TABLE B using RC Form 700 order numbers previously recorded

TABLE A	
K BLOCK	**SP TRANSLATION EQUIVALENT**
4	Comb. Misc. Scan Block 0 (MSN 0)
4	Comb. Misc. SD Block 0 (MDN 0)
5	Comb. Misc. Scan Block 1 (MSN 1)
5	Comb. Misc. SD Block 1 (MDN 1)

TABLE B
RCACT:ORNU a!
a = RC order number to be activated

ACTIVATE AND VERIFY SUBMEMBER EQUIPAGE

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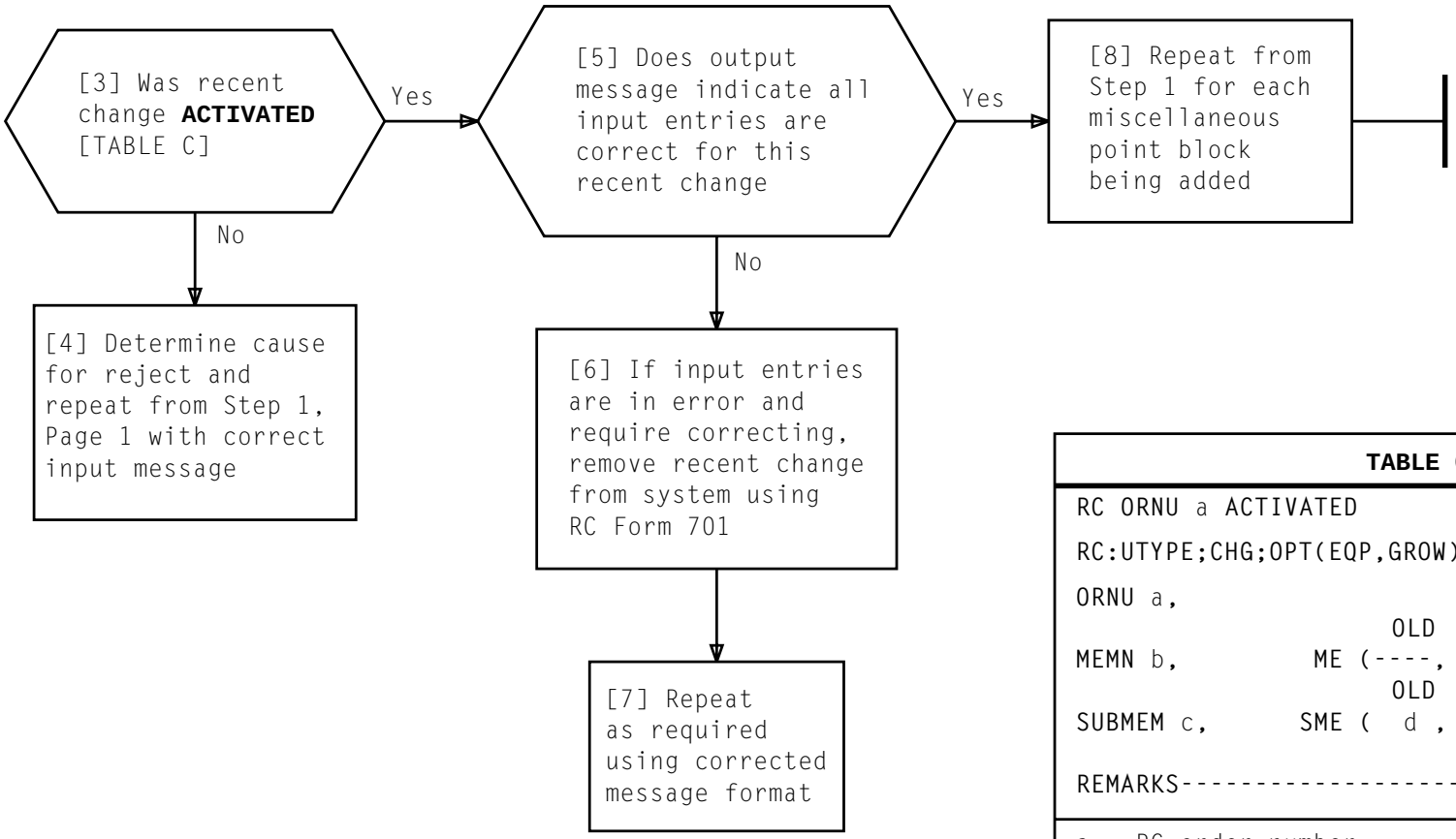

TABLE C

```
RC ORNU a ACTIVATED
RC:UTYPE;CHG;OPT(EQP,GROW),BUF:      UTYN SP,
ORNU a,
                          OLD  NEW
MEMN b,            ME (----, ----),
                          OLD  NEW
SUBMEM c,        SME (  d ,  d  ),

REMARKS---------------------------!
```

a = RC order number
b = Member number of growth associated SP
c = Submember name
    = MSNBLK(0 or 1) (for Misc Scan Block 0 or 1)
    = MDNBLK(0 or 1) (for Misc SD Block 0 or 1)
d = UNEQ, GROW or GROW, SGRO or SGRO, OPER

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ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE
IXL-001		• DLP-517		• DLP-552							
NTP-002		• DLP-518		• DLP-553							
• NTP-003		• DLP-519		• DLP-554							
• NTP-004		• DLP-520		• DLP-555							
• NTP-005		• DLP-521		• DLP-556							
• NTP-006		• DLP-522		• DLP-557							
• NTP-007		• DLP-523		• DLP-558							
• NTP-008		• DLP-524		• DLP-559							
• NTP-009		• DLP-525		□ DLP-560							
• NTP-010		• DLP-526		□ DLP-561							
• NTP-011		• DLP-527		□ DLP-562							
• NTP-012		• DLP-528		□ DLP-563							
• NTP-013		• DLP-529		□ DLP-564							
• NTP-014		• DLP-530		□ DLP-565							
• NTP-015		• DLP-531		□ DLP-566							
• NTP-016		• DLP-532		• CKL-891							
• NTP-017		• DLP-533		TNG-893							
• NTP-018		• DLP-534		• DPL-895							
• DLP-500		• DLP-535									
• DLP-501		• DLP-536									
• DLP-502		• DLP-537									
• DLP-503		• DLP-538									
• DLP-504		• DLP-539									
• DLP-505		• DLP-540									
• DLP-506		• DLP-541									
• DLP-507		• DLP-542									
• DLP-508		• DLP-543									
• DLP-509		• DLP-544									
• DLP-510		• DLP-545									
• DLP-511		• DLP-546									
• DLP-512		• DLP-547									
• DLP-513		• DLP-548									
• DLP-514		• DLP-549									
• DLP-515		• DLP-550									
• DLP-516		• DLP-551									

• **REVISED OR ADDED ITEM** □ **CANCELED ITEM**

Issue 6 **DEC 1986**

CHECKLIST

234-153-020 **CKL**

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