

TABLE A-FEATURES											
EQUIPMENT		EQUIPMENT OR CIRCUIT DATA						SD EQUIVALENT			
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT
EQUIPMENT AND CONNECTORIZED CABLE ASSEMBLY REQUIRED TO INTERCONNECT TRCU2 TO SHELF 1 OF MCTU2. DA EFF:04/03/00 FE/RA:NONE		DA	1								
EQUIPMENT AND CONNECTORIZED CABLE ASSEMBLY REQUIRED TO INTERCONNECT TRCU2 TO SHELF 0 OF MCTU2. DA EFF:04/03/00 FE/RA:NONE		DA	2								
EQUIPMENT AND CONNECTORIZED CABLE ASSEMBLY REQUIRED TO INTERCONNECT SHELF 0 OF MCTU2 TO BUILDING INTEGRATED TIMING SUPPLY (BITS) BOX. DA EFF:04/03/00 FE/RA:NONE	51 55	DA	3								
EQUIPMENT AND CONNECTORIZED CABLE ASSEMBLY REQUIRED TO INTERCONNECT SHELF 0 OF MCTU2 TO BUILDING INTEGRATED TIMING SUPPLY (BITS) BOX. DA EFF:04/03/00 FE/RA:NONE	51 55 57	DA	3A								
EQUIPMENT AND CONNECTORIZED CABLE ASSEMBLY REQUIRED TO INTERCONNECT SHELF 1 OF MCTU2 TO BUILDING INTEGRATED TIMING SUPPLY (BITS) BOX. DA EFF:04/03/00 FE/RA:NONE	51 55	DA	4								
EQUIPMENT AND CONNECTORIZED CABLE ASSEMBLY REQUIRED TO INTERCONNECT SHELF 1 OF MCTU2 TO BUILDING INTEGRATED TIMING SUPPLY (BITS) BOX. DA EFF:04/03/00 FE/RA:NONE	51 55 57	DA	4A								
EQUIPMENT AND CONNECTORIZED CABLE ASSEMBLY REQUIRED TO INTERCONNECT SHELF 0 OF MCTU2 TO STANDARD FUSE/FILTER UNIT (J5D003AU-()). DA EFF:04/03/00 FE/RA:NONE	53 54 55	DA	5								

TABLE-A CONTINUED

**ENGINEERING NOTES**

51. THE TERM "BITS" (BUILDING INTEGRATED TIMING SUPPLY) IS A COMMON ACRONYM USED IN NETWORK SYNCHRONIZATION. IT REFERS TO A STAND-ALONE UNIT THAT PROVIDES A MASTER CLOCK FOR ALL OTHER SYNCHRONIZED CLOCKS IN THE SAME OFFICE (INTRA-OFFICE SYNCHRONIZATION), INCLUDING THE CSCORM. THIS "BITS" UNIT CLOCK IS THE ONLY CLOCK THAT HAS A REFERENCE COMING FROM ANOTHER OFFICE (INTER OFFICE SYNCHRONIZATION. IN THE EVENT THAT THE EXTERNAL REFERENCE IS LOST (REFERRED TO AS HOLD OVER MODE), THE "BITS" CLOCK MAINTAINS OFFICE SYNCHRONIZATION TO THE NECESSARY STRATUM LEVEL FOR A SPECIFIED PERIOD OF TIME. THE "BITS" CLOCK IS REQUIRED TO HAVE THE SAME OR HIGHER STRATUM LEVEL (I.E., HAVE THE SAME OR LOWER STRATUM NUMBER) THAN ALL THE OTHER CLOCKS IN THE OFFICE. STRATUM 4 CLOCKS ARE NOT SUITABLE FOR USE AS "BITS" CLOCKS, SINCE THEY PROVIDE NO HOLD OVER CAPABILITY AND THEREFORE UNACCEPTABLE SLIP PERFORMANCE DURING EXTERNAL REFERENCE FAILURES. FOR ADDITIONAL EXPLANATION AND INFORMATION, PLEASE CONSULT BELLCORE TA-NWT-000436, ISSUE2, DIGITAL NETWORK SYNCHRONIZATION PLAN.

52. CONTACT ONE OF THE FOLLOWING FOR AUTHORIZATION PRIOR TO ORDERING THE EQUIPMENT INCLUDED IN THIS DOCUMENT.

DON ZEEDYK  
TELEPHONE NO.: 708-224-7462

RAM PRASAD  
TELEPHONE NO.: 708-713-7219

53. FUSING THE TN2518 CIRCUIT PACK IN THE STANDARD AND MODULAR FUSE/FILTER UNITS WILL BE DETERMINED ON THE AVAILABILITY OF UNUSED FUSE POSITIONS. THE AVAILABILITY OF UNUSED FUSE POSITIONS WILL VARY, DEPENDING HOW THE CUSTOMERS OFFICE IS EQUIPPED. REFER TO TABLE F TO ASSIST IN DETERMINING WHICH FUSE POSITIONS CAN BE USED.

54. ONLY ONE (1) SET OF CABLES SHOULD BE ORDERED FOR THE FUSE/FILTER UNIT PER APPLICATION. EITHER THE CABLES FOR THE FUSE/FILTER UNIT GROUPS 5 & 6 OR THE CABLES FOR THE MODULAR FUSE/FILTER UNIT GROUPS 5A & 6A SHOULD BE ORDERED. THE TYPE OF FUSE/FILTER UNIT THE CUSTOMER OFFICE HAS OR IS BEING ORDERED WOULD DETERMINE WHICH SET OF CABLES ARE REQUIRED.

55. THE FOLLOWING PAIRS OF GROUPS ARE MUTUALLY EXCLUSIVE:

3 AND 3A  
4 AND 4A  
5 AND 5A  
6 AND 6A  
7 AND 7A

56. MINIMUM OF ONE (1) TN2518 CIRCUIT PACK (GROUP 9) CAN BE ORDERED FOR SPARE. MINIMUM OF TWO (2) ARE REQUIRED FOR EACH APPLICATION.

57. GROUPS REFERENCED BY THIS NOTE PROVIDE CABLE ASSEMBLIES USING AMP CONNECTORS. THESE GROUPS ARE REQUIRED FOR DUTCH PTT APPLICATIONS AND APPLICATIONS HAVING SIMILAR ENVIRONMENTAL RESTRICTIONS ONLY.

**ISSUE NOTES**

ORIG ISS: 02/24/94 CHANGE CLASS:

DRAFT: WAM	ENGR: WAM	SUPV: FNG	CERTIFIED: 02/24/94	ISSUE: 1
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CASE# H09014. DISCONTINUE AVAILABILITY OF THE ED5D793-30. ALL GROUPS HAVE BEEN CHANGED TO DISCONTINUED AVAILABILITY. CHANGED "1ESS" IN TITLE OF DRAWING TO "5ESS". CHANGED "AT&T" IN TITLE BLOCK TO "LUCENT TECHNOLOGIES".

CASE# H8830. DISCONTINUE AVAILABILITY OF THE ED5D793-30. ALL GROUPS HAVE BEEN CHANGED TO DISCONTINUED AVAILABILITY. CHANGED "1ESS" IN TITLE OF DRAWING TO "5ESS". CHANGED "AT&T" IN TITLE BLOCK TO "LUCENT TECHNOLOGIES".

ORIG ISS: 02/24/94 CHANGE CLASS: ME

DRAFT: WAM	ENGR: WAM	SUPV: FNG	CERTIFIED: 04/03/00	ISSUE: 2
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BT13

5ESS EQUIPMENT SPECIFICATION FOR  
CLOCK SERVICE CIRCUIT FOR  
OPTICALLY REMOTE MODULES

DWG SIZE C2	ISSUE 2
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LUCENT TECHNOLOGIES INC ED5D793-30 SHEET A1  
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ED5D793-30

TABLE A-FEATURES (CONTINUED)

EQUIPMENT		EQUIPMENT OR CIRCUIT DATA							SD EQUIVALENT		
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT
EQUIPMENT AND CONNECTORIZED CABLE ASSEMBLY REQUIRED TO INTERCONNECT SHELF 0 OF MCTU2 TO MODULAR FUSE/FILTER UNIT (J5D003FJ-()). DA EFF:04/03/00 FE/RA:NONE	53 54 55	DA	5A								
EQUIPMENT AND CONNECTORIZED CABLE ASSEMBLY REQUIRED TO INTERCONNECT SHELF 1 OF MCTU2 TO STANDARD FUSE/FILTER UNIT (J5D003AU-()). DA EFF:04/03/00 FE/RA:NONE	53 54 55	DA	6								
EQUIPMENT AND CONNECTORIZED CABLE ASSEMBLY REQUIRED TO INTERCONNECT SHELF 1 OF MCTU2 TO MODULAR FUSE/FILTER UNIT (J5D003FJ-()). DA EFF:04/03/00 FE/RA:NONE	53 54 55	DA	6A								
EQUIPMENT AND CONNECTORIZED CABLE ASSEMBLY REQUIRED FOR CROSS-CONNECTION OF SHELF 0 AND 1 OF MCTU2. DA EFF:04/03/00 FE/RA:NONE	55	DA	7								
EQUIPMENT AND CONNECTORIZED CABLE ASSEMBLY REQUIRED FOR CROSS-CONNECTION OF SHELF 0 AND 1 OF MCTU2. DA EFF:04/03/00 FE/RA:NONE	55 57	DA	7A								
"OPTICAL REMOTE MODULE (ORM) CLOCK SYNCHRONIZATION CIRCUIT (CSC) CONVERSION" DOCUMENT. PROVIDES INSTRUCTIONS TO INSTALLATION PERSONELL TO ADD CIRCUIT PACKS AND CABLING TO 5ESS SWITCH OFFICE. DA EFF:04/03/00 FE/RA:NONE		DA	8								
APPARATUS REQUIRED TO PROVIDE CLOCK SERVICE CIRCUIT FOR OPTICALLY REMOTE MODULE APPLICATIONS. PROVIDES TN2518 CIRCUIT PACK. DA EFF:04/03/00 FE/RA:NONE	56	DA	9								
EQUIPMENT AND CONNECTORIZED CABLE ASSEMBLY REQUIRED TO INTERCONNECT TRCU TO SHELF 1 OF MCTU2. DA EFF:04/03/00 FE/RA:NONE		DA	11								
EQUIPMENT AND CONNECTORIZED CABLE ASSEMBLY REQUIRED TO INTERCONNECT TRCU TO SHELF 0 OF MCTU2. DA EFF:04/03/00 FE/RA:NONE		DA	12								
EQUIPMENT REQUIRED IN ADDITION TO GROUP 9 TO PROVIDE LABEL FOR TN2518 CIRCUIT PACK. DA EFF:04/03/00 FE/RA:NONE		DA	A								
END OF TABLE-A											

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STOCKLIST								
ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE	
							SYM	NBR
1010	1,2,3,3A,4,4A,5,5A,6,6A,7,7A,11,12	1	103342119	127C	MOUNTING, APPARATUS			11
1020	1	1	ED5D793-15,G1		ASSEMBLY, CABLE			
1030	2	1	ED5D793-15,G2		ASSEMBLY, CABLE			
1040	3	1	ED5D793-15,G3		ASSEMBLY, CABLE			
1050	3A	1	ED5D793-15,G3A		ASSEMBLY, CABLE			
1060	4	1	ED5D793-15,G4		ASSEMBLY, CABLE			
1070	4A	1	ED5D793-15,G4A		ASSEMBLY, CABLE			
1080	5	1	ED5D793-15,G5		ASSEMBLY, CABLE			
1090	5	1	100203330	70B	FUSE 2 AMP			
1100	5	1	401922067	KS14174L2	PIN, DESIGNATION NYLON ORANGE			
1110	5	1	ED5D088-10,G611		LABEL, FUSE			
1120	5A	1	ED5D793-15,G5A		ASSEMBLY, CABLE			
1130	5A	1	406708545	WP91768L107	FUSE, 2.0 AMP, 250 VOLT VERY FAST ACTING			
1140	5A	1	ED5D088-10,G595		LABEL, FUSE			
1150	6	1	ED5D793-15,G6		ASSEMBLY, CABLE			
1160	6	1	100203330	70B	FUSE 2 AMP			
1170	6	1	401922067	KS14174L2	PIN, DESIGNATION NYLON ORANGE			
1180	6	1	ED5D088-10,G612		LABEL, FUSE			
1190	6A	1	ED5D793-15,G6A		ASSEMBLY, CABLE			
1200	6A	1	406708545	WP91768L107	FUSE, 2.0 AMP, 250 VOLT VERY FAST ACTING			
1210	6A	1	ED5D088-10,G596		LABEL, FUSE			
1220	7	1	ED5D793-15,G7		ASSEMBLY, CABLE			
1230	7A	1	ED5D793-15,G7A		ASSEMBLY, CABLE			
1240	8	1	107179855		MANUAL, INSTALLATION OPTICAL REMOTE MODULE (ORM) CLOCK SYNCHRONIZATION CIRCUIT (CSC)			
1250	9	1	107148322	TN2518	PACK,CIRCUIT CLEI = E5PQAKTA			
1260	A	1	ED5D075-11,G112		LABEL			
1270	11	1	ED5D793-15,G11		ASSEMBLY, CABLE			
1280	12	1	ED5D793-15,G12		ASSEMBLY, CABLE			
***** END OF STOCKLIST *****								

S H O P	I N S T R U C T I O N S	MANUFACTURING NOTES																			
		SYM	NBR																		
			1. X PARTS REQUIRED FOR INSTALLATION.																		
			X/ PARTS REQUIRED FOR MANUFACTURE WHEN EQUIPMENT IS SHOP MOUNTED OR BY THE INSTALLER WHEN THE EQUIPMENT IS TO BE FIELD MOUNTED.																		
			* PARTS THAT ARE TO BE SHIPPED ATTACHED TO OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED ASSEMBLED ITEM.																		
			*/ PARTS (A) REQUIRED FOR MANUFACTURE WHEN EQUIPMENT INVOLVED IS SHOP MOUNTED OR (B) TO BE SHIPPED ATTACHED TO, OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED ASSEMBLED ITEM WHEN FIELD MOUNTED.																		
			( ) INDICATES DESIGNATIONS TO BE STAMPED IN ACCORDANCE WITH JOB INFORMATION.																		
			{ } INDICATES DESIGNATIONS SHOWN FOR INFORMATION ONLY AND ARE NOT TO BE STAMPED.																		
			< > INDICATES DESIGNATIONS AND/OR INFORMATION PROVIDED IN ACCORDANCE WITH OTHER INFORMATION.																		
			"W" PARTS ASSEMBLED AT THE SAME TIME THE EQUIPMENT IS MOUNTED.																		
			"W*" PARTS TO BE (A) SHOP ASSEMBLED, BUT WHICH CANNOT BE ASSEMBLED UNTIL THE ASSOCIATED EQUIPMENT IS BEING MOUNTED, OR (B) SHIPPED ATTACHED TO, OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED EQUIPMENT WHEN FIELD MOUNTED.																		
			"S" PARTS NOT ASSEMBLED, SHIPPED SEPARATELY.																		
			A/R AS REQUIRED.																		
			"B" PARTIAL ASSEMBLIES ON OTHER DRAWINGS WITH STOCKLISTS.																		
X	X		11. ADDITIONAL 127 TYPE APPARATUS MOUNTINGS (103342119) ARE TO BE MOUNTED ON THE MCTU2 (J5D003LA-1) BACKPLANE AS INDICATED BELOW:																		
			<table border="1"> <thead> <tr> <th>EQL</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr><td>19-120</td><td>132</td></tr> <tr><td>28-120</td><td>132</td></tr> <tr><td>19-120</td><td>200</td></tr> <tr><td>28-120</td><td>200</td></tr> <tr><td>19-120</td><td>332</td></tr> <tr><td>28-120</td><td>332</td></tr> <tr><td>19-120</td><td>400</td></tr> <tr><td>28-120</td><td>400</td></tr> </tbody> </table>	EQL	TERMINAL	19-120	132	28-120	132	19-120	200	28-120	200	19-120	332	28-120	332	19-120	400	28-120	400
EQL	TERMINAL																				
19-120	132																				
28-120	132																				
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28-120	400																				

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TABLE F  
AVAILABLE FUSE POSITION DETERMINATION

J-DRWG, LIST	PCDF ID	AVAILABLE FUSES
J5D003AU-2, L-WD (STANDARD FUSE/FILTER UNIT) SMC WITHOUT ISLU, 2-PSU'S OR LU()'S	A0	6B
	A1	9T, 10T, 12T, 9B THRU 12B
	B0	18B
	B1	21T, 22T, 24T, 21B THRU 24B
THE LAST FUSE ASSIGNMENTS THAT WOULD BE CHOSEN ARE 12B & 24B		
J5D003AU-2, L-WH (RECONFIGURED FUSE/FILTER UNIT) SMC EQUIPPED WITH ISLU, 1-PSU'S OR LU()'S	A0	2T, 3T, 4T & 4B
	B0	10T, 11T, 12T & 12B
THE LAST FUSE ASSIGNMENTS THAT WOULD BE CHOSEN ARE 4B & 12B.		
J5D003FJ-1, L-119 & L-AC, AD OR AE (MODULAR FUSE/ FILTER UNIT) SMC EQUIPPED WITH ISLU, 2-PSU'S OR LU()'S	A0	023B
	A1	032C, 032D, 041B, 041C, 041D
	B0	059B
	B1	073C, 073D, 082B, 082C, 082D
THE LAST FUSE ASSIGNMENTS THAT WOULD BE CHOSEN ARE 041D & 082D		
J5D003FJ-1, L-113 (SMC WITHOUT ISLU, 2-PSU'S OR LU()'S	A0	023C, 023D, 032A, 032B, 032C, 032D, 041A, 041B, 041C, 041D
	A1	059A, 059B, 059C, 059D, 073A, 073B, 073C, 073D, 082A, 082B, 082C, 082D
	B0	127D, 141A, 141B, 141C, 141D, 150A, 150B, 150C, 150D
	B1	168A, 168B, 168C, 168D, 177A, 177B, 177C, 177D, 186A, 186B, 186C, 186D
THE LAST FUSE ASSIGNMENTS THAT WOULD BE CHOSEN ARE 082D & 186D		

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