CONTINUITY
ELECTRONIC LEAD VERIFICATION SYSTEM
ESS NO. 1/1A, 12 FILE JUNCTOR GROUPING
FRAME REPLACEMENT

CONTENTS

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1. GENERAL

1.1 Scope of Section

1.11 This section provides information and methods to be employed for verifying the continuity of switchboard cable leads associated with the Telephone Central Office bulk wiring operations, on ESS No. 1/1A, during installation of 12 file Junctor Grouping Frame replacement in existing in service Central Offices.

1.12 The methods of this section cover the application of the "Electronic Lead Verification System" as a vehicle for performing cable lead verification operations.

1.2 Precautions Against Personal Injury, Equipment Damage and Service Interruptions

1.21 General precautions to be taken against personal injury, equipment damage and service interruptions are covered in Handbook 0 and are to be observed at all times as they apply to the operations being performed.

1.22 No action may be taken in a working office which may cause service interruptions. Since the Telephone Company's personnel is responsible for the status of an operational office at all times, it is necessary for Western Electric personnel to co-ordinate all testing with the Telephone Company to insure continuous service of the office as outlined in the related MOP.

1.3 Reference Information

1.31 Refer to Handbook 9, Section 910 for the detailed Method of Operation of the test sets used in this section.

1.32 The terminations for cable leads as shown in this section, were obtained from circuit schematic drawings, typical equipment layout drawings and CCED's. For each specific job the particular running sheets may be used if required.

2. TEST EQUIPMENT

2.1 Equipment

Amount	ITE	Description
1	5420 L1, L7	Test Accessory Set
1	5421	Analyzer Test Set
1	5422	Master Test Encoder Test Set
1	5424	1000 Circuit Encoder Test Set
2	9650	Operator's Telephone Set
As Reqd.	R-3436	Flags

2.2 Cords and Accessories

Amount	ITE	Description
1	9214A*	Interconnect Cable (30 ft)
1	9214B*	Interconnect Cable (60 ft)
1	9214C*	Interconnect Cable (100 ft)

2.2 Cords and Accessories (Cont'd)

1	9910**	Junctor Grouping Frame Cord (For Junctor Frame Test)
1	9911**	Junctor Frame Cord
1	9982**	Junctor Grouping Frame
1	9982 Det. 1 to 16	Cords (For LLN/TLN Test)
1	5421*** Det. 8	Program Plug ESS
1	9276***	Test Cord, 12' Long, 50 Conductors
1	9421	Test Cord (Probe)

*Included in ITE-5420 L1
**Included in ITE-5420 L7
***Included in ITE-5421

3. APPLICATIONS

3.1 General

3.11 The Electronic Lead Verification System is designed to provide wire identification, wire search, short circuit and open circuit verification of Installer's wiring. The system is used for continuity verification and circuit analysis in Telephone Central Office bulk wiring operations. In general there are three major components required for the ESS Frames bulk wiring verification as follows: FIGS. 1 to 4.

3.12 The Analyzer Test Set (ITE-5421) and Master Test Encoder Test Set (ITE-5422) provide alphanumeric readout and control functions respectively. These units are located near the frame under test. For identification purposes, this location will be considered as "END A" or the point of origin. Master Test Encoder Test Set (ITE-5422) is required for automatic scan test, but is not necessary during a manual probing test.

3.13 The 1000 Circuit Encoder Test Set (ITE-5424) provides test access at the far end of the wiring being tested and for identification purposes, this end will be considered as "END B" or the point of destination.

3.14 Test cords are designed to follow assigned numbering when feasible. When it becomes impractical to have an exact match between the apparatus terminal number and the analyzer display image, a compromise is used which has a pattern that can be readily recognized as described below:

Example: FIGS. 1 to 4 show the location of test sets and frames under test. FIGS. 5 to 14 show the display image numbers associated with each of the frame terminals. If "N" represents any number from 0 to 7, the following pattern will occur:

Location	Image
Tip	ONN (e.g. 000,001,--077; 200,201,--277; 400,401,--477; 500,601,--677)
Ring	INN (e.g. 100,101,--177; 300,301, --377,500,501,--577; 700,701,--777)

3.15 Conductor colors should not be employed during verification operations. Continuity verification must be performed as a terminal-to-terminal check disregarding the associated lead color information listed on CCED's or running sheets. Terminal-to-terminal checking not only provides for continuity checking of the leads, but verifies the integrity of functional lead assignments within a circuit. This type of checking, thereby, eliminates the chance of missing slipped terminals that can readily occur when checking by color code.

3.16 ITE-5421 Det. 8 Program Plug for this application is designed to override the alarm on 8 and 9 units and digits. In other words, due to the octal system of ESS, only 0 to 7 units and digits are connected in interface cords; even though 8 and 9 units and digits may appear as display, it will not cause an alarm condition. The scan limit thumb wheel switches in ITE-5422 should be set at 177 for automatic testing.

3.2 Method of Operation

3.21 Tests in this section may be performed after all interbay leads have been run and connected as well as the switchboard cable.

3.22 It is recommended that these continuity tests be performed before power application tests are performed.

3.23 For test set system tests refer to the Handbook 9, Section 910. It is recommended that tests in Handbook 9, Section 910 be performed on the test sets prior to continuity testing.

3.24 The basic test operation will be made utilizing the manual mode and the automatic scan mode of the ELVS test sets. In the manual test mode a fixture is interfaced at one end of the "cable under test" and leads at the other end are hand-probed one at a time. In automatice mode fixtures are interfaced to the appropriate group of leads at both ends of the "cable under test" and tested automatically by operating SCAN/STEP switch to SCAN position.

3.25 Referring to Tables A and B set the equipments as follows:

3.251 For automatic scanning, set up the ITE-5421 Analyzer and the ITE-5422 Master Test Encoder at the originating frame. At the terminating frame locate the ITE-5424, 1000 Circuit Encoder. See Fig. 4 for correct test set up. Interconnect test sets using cords provided.

3.252 For manual scanning, set up the ITE-5421 Analyzer at the originating frame. At the terminating frame locate the ITE-5424, 1000 Circuit Encoder. The leads at the originating hands are to be hand probed. See FIG. 1 for correct set up. Interconnect the test sets using cords provided.

3.3 Continuity and Lead Verification Tests

(To be performed before splicing to existing in-service Central Office cables. Make sure that the switch located between sensitivity and signal level - on ITE-5421 Analyzer - is pointing towards ground symbol and the new Junctor Grouping Frame is connected and tested to the grounding system of the ESS Office).

3.31 Junctor Grouping Frame to 711 Connectors associated with line link or trunk link network (ferreed or remreed):

3.311 Test set up of equipment is arranged as shown in FIG. 1 and Table B.

3.312 Connections are made to the Junctor Grouping Frame (even and odd) using ITE-9982 Cord on all shelves, on verticals associated with network under test. All fixtures (16 for even JGF and 16 for odd JGF) should be connected at their appropriate locations on JGF as stamped on each fixture. The connectors provided on each fixture contain leads for frame/circuit 0, 1, 2 and 3 of the same network. Only appropriate connectors should be plugged to the main leg of the cord ITE-9982, e.g. when testing cable leads between junctor switch frame/circuit 0 and JGF connector 0 on each fixture shall be plugged to the main cord for testing.

3.313 The leads on eight 711 Connectors associated with any one frame Ferreed/Circuit Remreed are to be hand-probed. It may be necessary to plug connector module for probing leads on 711 Connector. Refer to FIG. 8 and 9 for readout display and Paragraph 3.314.

3.314

GRID	TIP LEADS	RING LEADS
0	000.077	100.177
1	200-277	300-377
2	400-477	500-577
3	600-677	700-777

3.32 Junctor Grouping Frame to 711 Connectors associated with junctor frames:

3.321 Test set up of equipment is arranged as shown in FIG. 3 and Table B.

3.322 Connections are made on the Junctor Grouping Frame with ITE-9910 as shown in Table C.

3.323 The leads on the four 711 Connectors associated with any one shelf of JGF vertical are to be hand-probed. Please note that only half of 711 Connectors are wired (1-32). Refer to FIG. 10 for readout display. Make sure that only 1 to 32 termianls of 711 Connecotr are connected.

3.4 Continuity and Lead Verification Tests After Splicing the Cables

(Make sure that frame/circuit has been made busy before splicing and during the tests).

3.41 Junctor Grouping Frame to Line Link Network or Trunk Link Network (Ferreed)

3.411 Test set up of equipment is arranged as shown in FIG. 2 and Table B.

3.412 Connections are made to the Junctor Grouping Frame (even and odd) using ITE-9982 Cord on all shelves, on verticals associated with network under test. All fixtures (16 for even JGF and 16 for odd JGF) should be connected at their appropriate locations on JGF as stamped on each fixture. The connectors provided on each fixture contain leads for frame/circuit 0, 1, 2 and 3 of the same network. Only appropriate connectors should be plugged to the main leg of the cord ITE-9982, e.g., when testing cable leads between Junctor Switch Frame 0 and JGF, connector 0 on each fixture shall be plugged to the main cord for testing. THIS IS VERY IMPORTANT SINCE THE OTHER THREE FRAMES OF LLN/TLN ARE IN OPERATING CONDITION.

3.413 The terminals at the ferreed switches or FCG Switches on ferreed LLN/TLN Junctor Switch frames are to be hand probed. Refer to Figures 5 and 7 for readout displayed and Paragraph 3.414.

3.414

GRID	TIP LEADS	RING LEADS
0	000-077	100-177
1	200-277	300-377
2	400-477	500-577
3	600-677	700-777

3.416 Other frames of the same network can be tested similarly one at a time after they have been made busy and spliced to the new JGF.

3.42 Junctor Grouping Frame to Line Link Network or Trunk Link Network Remreed

3.421 Test set up of equipment is arranged as shown in FIG 2 and TAble B.

3.422 Connections are made to the Junctor Grouping Frame (even and odd) using an ITE-9982 on all shelves, on verticals associated with network under test. All fixtures (16 for even JGF and 16 for odd JGF) should be connected at their appropriate locations on JGF as stamped on each fixture. The connectors provided on each fixture contain leads for frame/circuit 0, 1,2 and 3 of the same network. Only appropriate connectors should be plugged to the main leg of the cord ITE-9982, e.g., when testing cable leads between Junctor Switch Circuit 0 and JGF, connector 0 on each fixture shall be plugged to the main cord for testing. THIS IS VERY IMPORTANT SINCE THE OTHER THREE CIRCUITS OF LLN/TLN ARE IN AN OPERATING CONDITION.

3.423 The terminals at the Remreed Switches on the LLN/TLN Junctor Switch Circuit (stage 1) are to be hand probed. Refer to Figures 6 and 7 for readout display and Paragraph 3.424.

3.424

GRID	TIP LEADS	RING LEADS
0	000-077	100-177
1	200-277	300-377
2	400-477	500-577
3	600-677	700-777

3.426 Other circuits of the same network can be tested similarly one at a time after they have been made busy and spliced to the new JGF.

3.43 When testing the wiring from new JGF to tail cables of LLN/TLN or from new JGF to LLN/TLN frame, three numbers that appear on display bear a relation to grid, SW, level, T and R. Initially frame number for ferreed LLN/TLN or circuit number for remreed LLN/TLN is known. Next, first number on left display indicates grid, T and R, second number indicates switch and third number indicates level. For example display 456 indicates grid 2, tip, SW 5 and level 6. The following table shows how to determine grid, Tip and Ring (i.e., first digit on display). Refer to Table D for JGF Shelf and LLN/TLN SW/LV assignments.

DISPLAY	T	R	GRID
0	X		0
1		X	0
2	X		1
3		X	1
4	X		2
5		X	2
6	X		3
7		X	3

3.44 Junctor Frames to Junctor Grouping Frame

3.441 Test set up of equipment is arranged as shown in FIG. 4 and Table B.

3.442 Connection are made on the T, R, and T1, R1 terminals of the 288H terminal strips on the Junctor Frames (even and odd). Refer to Table C for detailed information for connecting ITE-9910 cord and ITE-9911 cord.

3.443 This test will be performed in automatic scan mode. Refer to FIGS. 11, 12 for even JGF and FIGS. 13, 14 for odd JGF for readout display.

3.5 Wiring Errors

3.51 If a wiring error is located during verification, affected lead(s) should be reconnected to the proper termination(s) immediately according to handbook requirements. Be sure to depress the RESET button in the scan control section of the ITE-5422 Master Test Encoder before any wiring correction is performed. If the error is not corrected immediately, lead(s) should be clearly identified with R-3436 Flags. An accurate record of all wiring errors must be kept on SD-97-1313 form. For detailed information on filling out test records, refer to Handbook 3, Section 6B.

4. ABNORMAL CONDITIONS

4.1 Busy Pair(s)

4.11 It is possible that some lines may not be released (after being made busy) when performing above tests. This will be indicated by multiple images on display and can not be analyzed for possible error. Under such circumstances unplug the fixture on ferreed or remreed network. This will clear the trouble. Then operate SCAN/STEP switch to SCAN position. It will stop scanning at the leads where the fixtrue is missing. Operate SCAN/STEP switch to STEP position to skip 8 tip and 8 ring leads (ferreed) or 16 tip and 16 ring leads (remreed). Then resume scanning by operating same switch to SCAN position. The leads skipped are to be hand probed with ITE-5421. Make sure to turn-off Master Test Encoder ITE-5422 when hand probing any lead. The leads which are not yet released may be tested later on. An accurate record of such trouble must be kept on SD-97-1313 Form.

4.2 Spare Leads(s)

4.21 It is possible that spare Cable Leads may have been utilized during the initial installation of the ferreed, remreed, or Junctor Frame due to open or shorted regular conductors. Under these circumstances the test set would indicate an open condition. Visually check the frame/connector to see if spare leads had been used. If any spare cable leads were used, make the appropriate wiring change at the 711 Receptacle Assembly.

4.3 Deviations

4.31 It is possible that there may be some wiring conditions (reversals, etc.) in an existing cable which is not consistent with the wiring of the new frame. In such case, it will be expedient to make the necessary changes(s) in the wiring of 711 Receptacle for the new frame cable, due to the possibility of creating a service interruption if the change(s) were to be made in the existing cable for the old frame.

4.4 Unassigned Lines/Trunks Terminated On Same Shelf

4.41 It is possible that some lines may not be released (after being made busy) when performing continuity tests described in Paragraph 3.4. This will be indicated by multiple images on display and cannot be dialed out for possible error. This is due to unassigned lines/trunks terminated on same shelf. Contact Telephone Company personnel for further action. The Telephone Company personnel may remove unassigned plug(s) if possible.

REFERENCE CHART - TABLE A

Frame	J Drawings	CCED	Interfacing Cord ITE
Junctor Grouping	1A085A	1A341-10	9982, Det. 1 to 16,
Junctor	1A031D	1A170-16	9910, 9911

TABLE B

Originating End	Cord ITE	Terminating End	Cord ITE
Junctor Grouping Frame	9982 Det. 1 to 16	711 Connector	Test Probe 9421
Junctor Grouping Frame	9910	711 Connector	Test Probe 9421
Junctor Grouping Frame	9982 Det. 1 to 16	Junctor Switch Frame (LLN/TLN, Ferreed)	Test Probe 9421
Junctor Grouping Frame	9982 Det. 1 to 16	Junctor Switch Frame (LLN/TLN, Remreed)	Test Probe 9421
Junctor Grouping Frame	9910	Junctor Frame	9911

TABLE C

From Frame Junctor Grouping, ITE-9910		To Frame Junctor (Even, Odd) T, R and T, R Leads ITE-9911	
Frame	Shelf	Bay	Mounting plates
Even	0	0	1, 2
TS 0, 2	1	0	3, 4
Conn 4, 6	2	0	5, 6
	3	0	7, 8
	4	0	9, 10
	5	0	11, 12
	6	0	13, 14
	7	0	15, 16
Odd	0	2	1, 2
TS 1, 3	1	2	3, 4
Conn 5, 7	2	2	5, 6
	3	2	7, 8
	4	2	9, 10
	5	2	11, 12
	6	2	13, 14
	7	2	15, 16

TABLE D

CROSS REFERENCE CHART FOR JGF
SHELF AND LLN/TLN, SW/LV ASSIGNMENTS

SHELF JGF	LV	SW --	0	1	2	3	4	5	6	7
E	0	T.S. 0								
O	1	T.S. 1	0	1	2	3	4	5	6	7
E	2	T.S. 2								
O	3	T.S. 3								
E	4	Conn 4								
O	5	Conn 5	0	1	2	3	4	5	6	7
E	6	Conn 6								
O	7	Conn 7								

E Even JGF, T.S. 0, 2; Conn 4, 6

O Odd JGF, T.S. 1, 3; Conn 5, 7

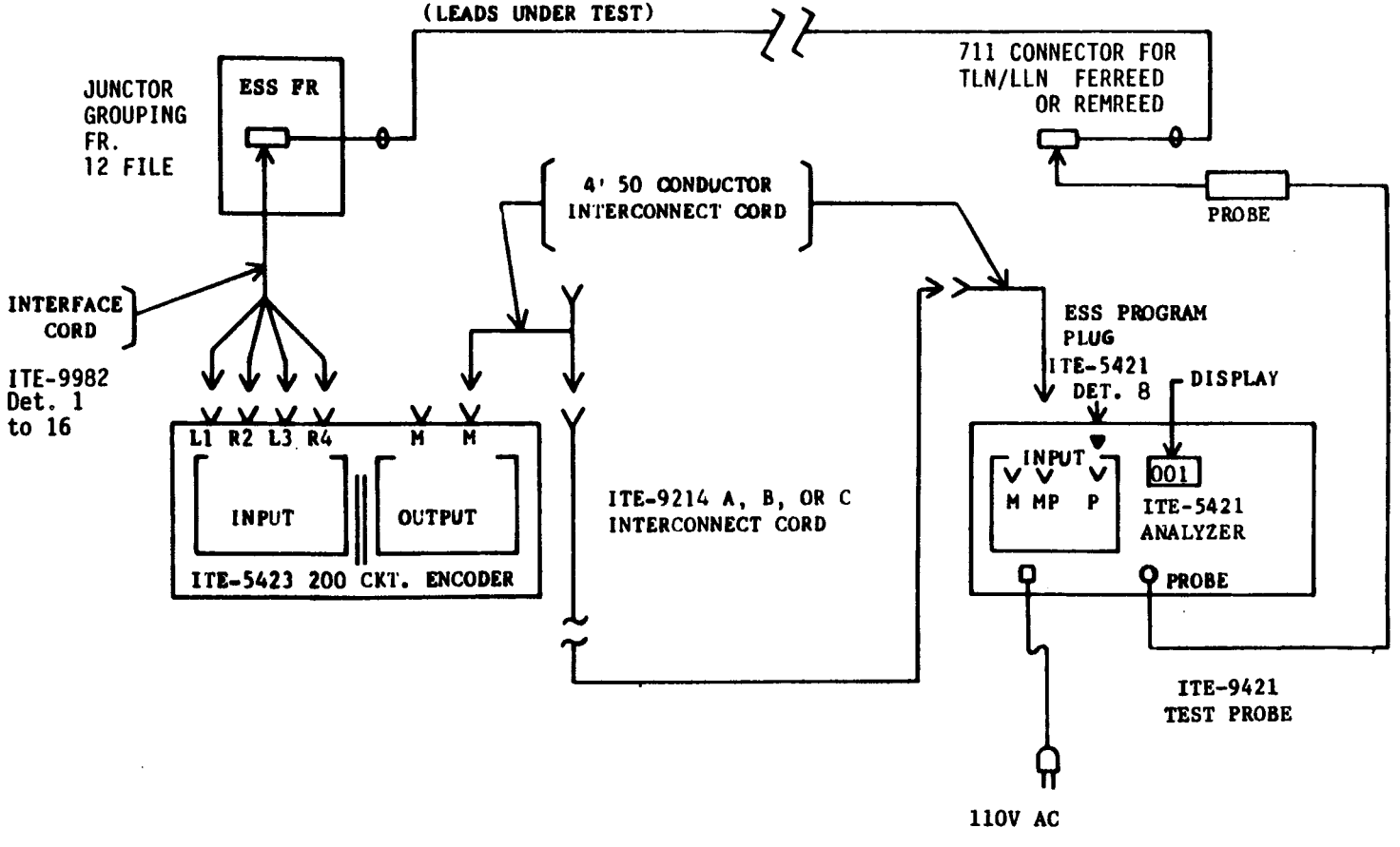

FIG. 1 TYPICAL TEST SETUP
(MANUAL MODE SCAN)

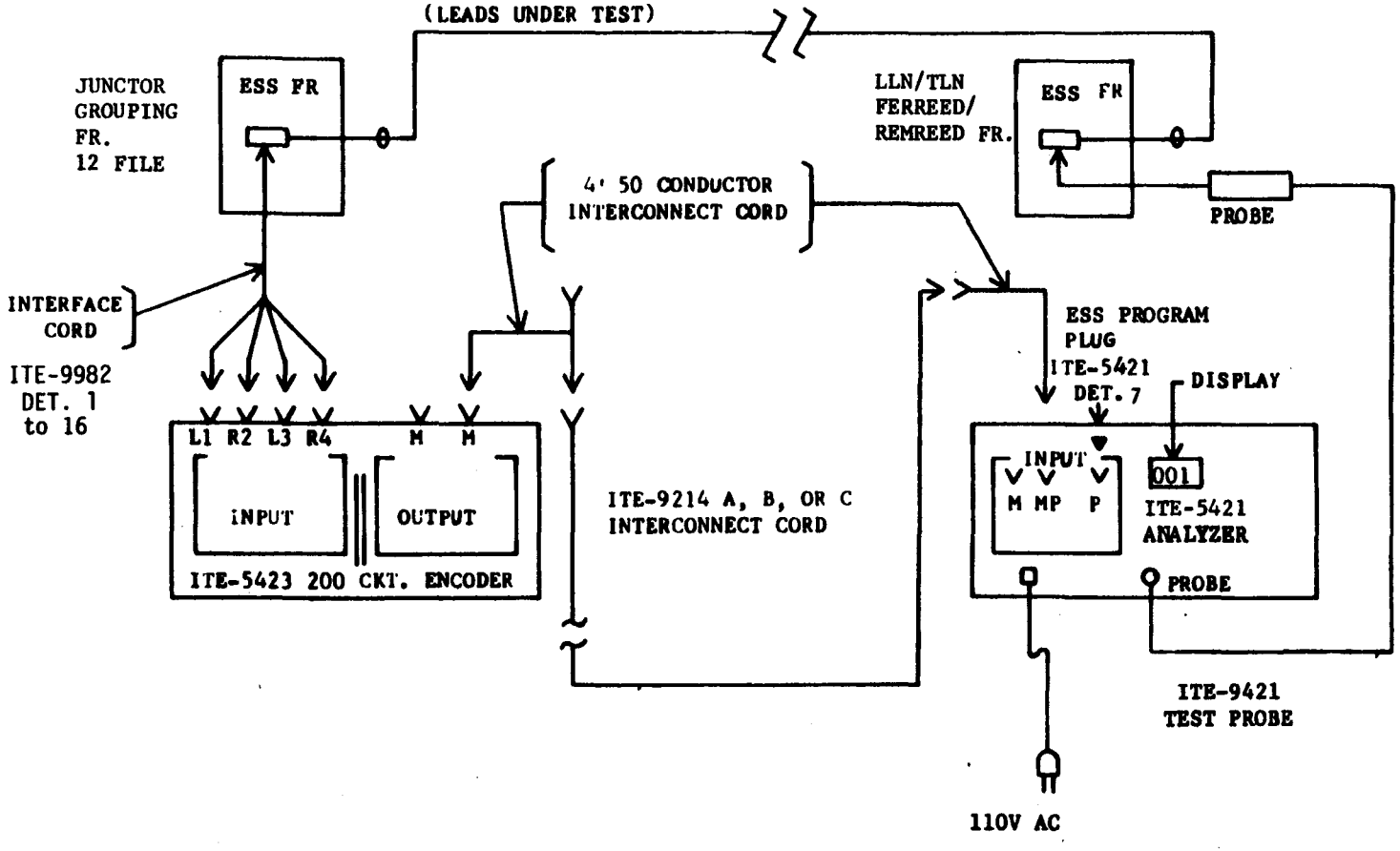

FIG. 2 TYPICAL TEST SETUP
(MANUAL MODE SCAN)

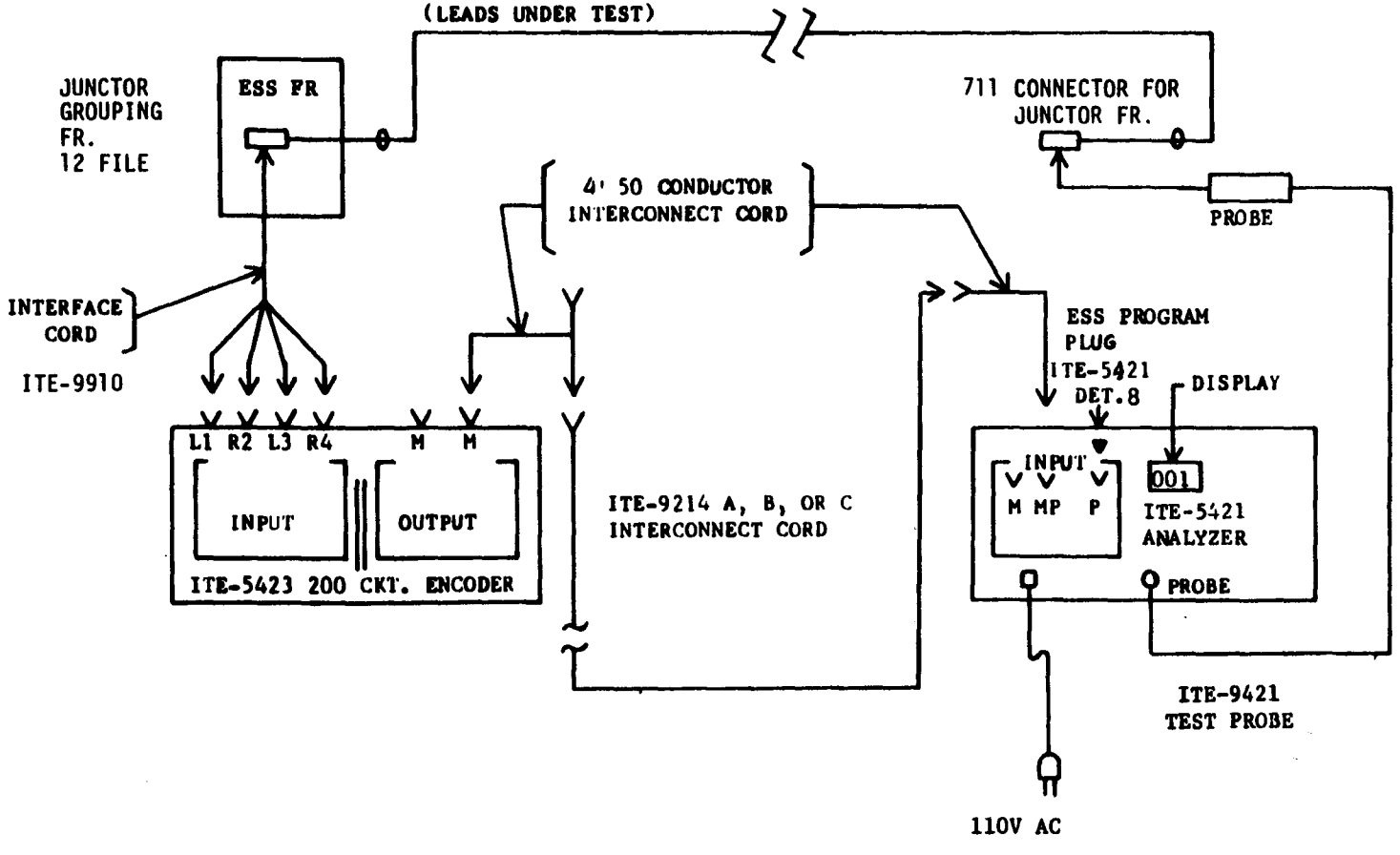

FIG. 3 TYPICAL TEST SETUP
(MANUAL MODE SCAN)

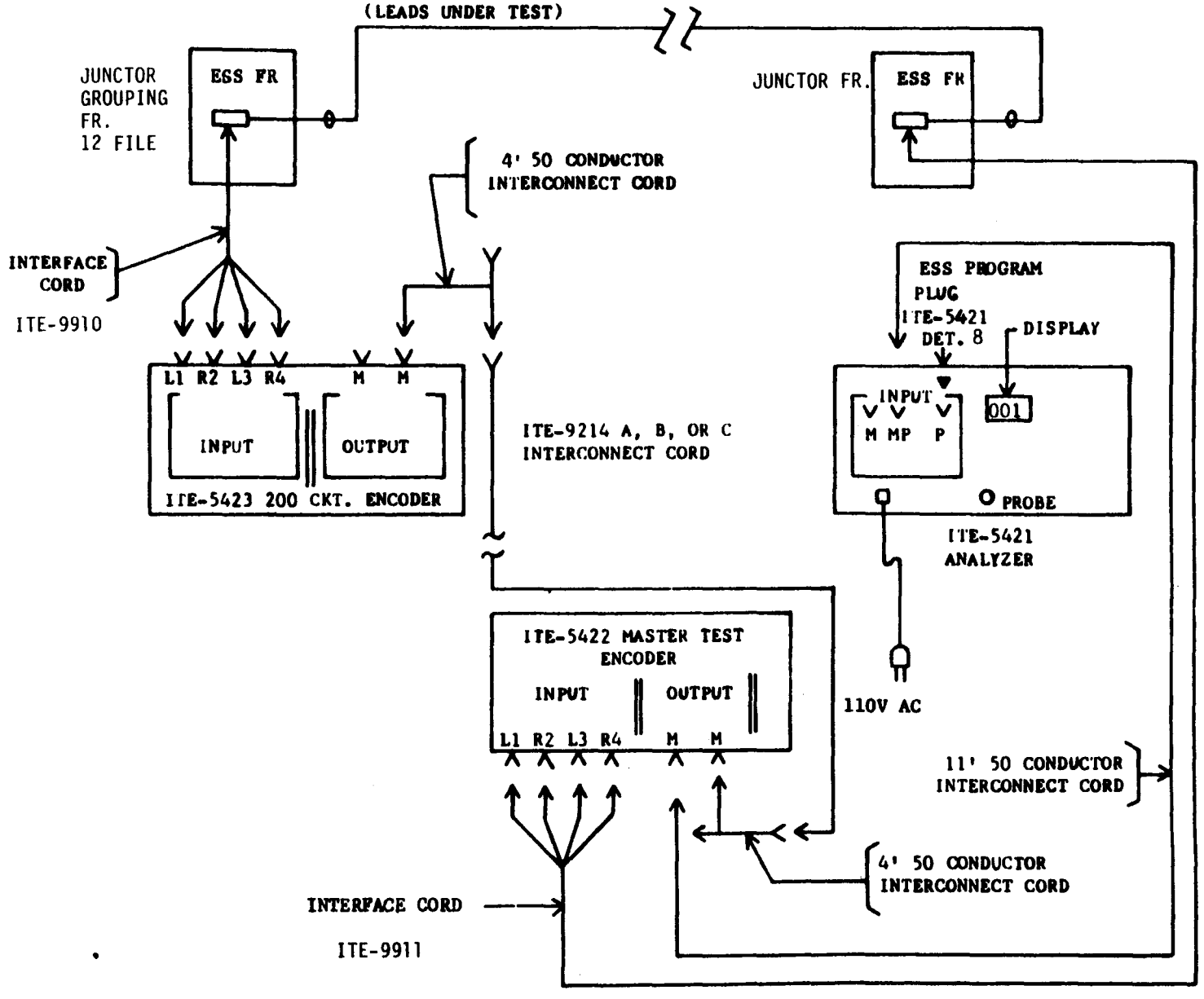

FIG. 4 TYPICAL TEST SETUP
(AUTOMATIC MODE SCAN)

R7	107	117	127	137	147	157	167	177
T7	007	017	027	037	047	057	067	077
R6	106	116	126	136	146	156	166	176
T6	006	016	026	036	046	056	066	076
R5	105	115	125	135	145	155	165	175
T5	005	015	025	035	045	055	065	075
R4	104	114	124	134	144	154	164	174
T4	004	014	024	034	044	054	064	074
R3	103	113	123	133	143	153	163	173
T3	003	013	023	033	043	053	063	073
R2	102	112	122	132	142	152	162	172
T2	002	012	022	032	042	052	062	072
R1	101	111	121	131	141	151	161	171
T1	001	011	021	031	041	051	061	071
R0	100	110	120	130	140	150	160	170
T0	000	010	020	030	040	050	060	070
LV SW	10	11	12	13	14	15	16	17

FERREED FRAME JSF GRID 0

R7	307	317	327	337	347	357	367	377
T7	207	217	227	237	247	257	267	277
R6	306	316	326	336	346	356	366	376
T6	206	216	226	236	246	256	266	276
R5	305	315	325	335	345	355	365	375
T5	205	215	225	235	245	255	265	275
R4	304	314	324	334	344	354	364	374
T4	204	214	224	234	244	254	264	274
R3	303	313	323	333	343	353	363	373
T3	203	213	223	233	243	253	263	273
R2	302	312	322	332	342	352	362	372
T2	202	212	222	232	242	252	262	272
R1	301	311	321	331	341	351	361	371
T1	201	211	221	231	241	251	261	271
R0	300	310	320	330	340	350	360	370
T0	200	210	220	230	240	250	260	270
LV SW	10	11	12	13	14	15	16	17

FERREED FRAME JSF GRID 1

FIG. 5 READOUT DISPLAY (T&R) ASSOCIATED WITH LJSF OR TJSF FERREED FRAMES

R7	507	517	527	537	547	557	567	577
T7	407	417	427	437	447	457	467	477
R6	506	516	526	536	546	556	566	576
T6	406	416	426	436	446	456	466	476
R5	505	515	525	535	545	555	565	575
T5	405	415	425	435	445	455	465	475
R4	504	514	524	534	544	554	564	574
T4	404	414	424	434	444	454	464	474
R3	503	513	523	533	543	553	563	573
T3	403	413	423	433	443	453	463	473
R2	502	512	522	532	542	552	562	572
T2	402	412	422	432	442	452	462	472
R1	501	511	521	531	541	551	561	571
T1	401	411	421	431	441	451	461	471
R0	500	510	520	530	540	550	560	570
T0	400	410	420	430	440	450	460	470
LV SW	10	11	12	13	14	15	16	17

FERREED FRAME JSF GRID 2

F7	707	717	727	737	747	757	767	777
T7	607	617	627	637	647	657	667	677
R6	706	716	726	736	746	756	766	776
T6	606	616	626	636	646	656	666	676
R5	705	715	725	735	745	755	765	775
T5	605	615	625	635	645	655	665	675
R4	704	714	724	734	744	754	764	774
T4	604	614	624	634	644	654	664	674
R3	703	713	723	733	743	753	763	773
T3	603	613	623	633	643	653	663	673
R2	702	712	722	732	742	752	762	772
T2	602	612	622	632	642	652	662	672
R1	701	711	721	731	741	751	761	771
T1	601	611	621	631	641	651	661	671
R0	700	710	720	730	740	750	760	770
T0	600	610	620	630	640	650	660	670
LV SW	10	11	12	13	14	15	16	17

FERREED FRAME JSF GRID 3

FIG. 5 READOUT DISPLAY (T & R) ASSOCIATED WITH LJSF OR TJSF FERREED FRAMES

951A CONNECTOR		ELVS DISPLAY	
0	15 1	017	117
		016	116
		015	115
		014	114
	SW11	013	113
		012	112
		011	111
	08	010	110
	07	007	107
		006	106
		005	105
	SW10	004	104
		003	103
		002	102
		001	101
0	00 1	000	100
		0(T)	1(R)

T_1 (Fixture)

951A CONNECTOR		ELVS DISPLAY	
0	15 1	037	137
		036	136
		035	135
		034	134
	SW13	033	133
		032	132
		031	131
	08	030	130
	07	027	127
		026	126
		025	125
	SW12	024	124
		023	123
		022	122
		021	121
0	00 1	020	120
		0(T)	1(R)

T_2 (Fixture)

951A CONNECTOR		ELVS DISPLAY	
0	15 1	057	157
		056	156
		055	155
		054	154
	SW15	053	153
		052	152
		051	151
	08	050	150
	07	047	147
		046	146
		045	145
	SW14	044	144
		043	143
		042	142
		041	141
0	00 1	040	140
		0(T)	1(R)

T_3 (Fixture)

951A CONNECTOR		ELVS DISPLAY	
0	15 1	077	177
		076	176
		075	175
		074	174
	SW17	073	173
		072	172
		071	171
	08	070	170
	07	067	167
		066	166
		065	165
	SW16	064	164
		063	163
		062	162
		061	161
0	00 1	060	160
		0(T)	1(R)

T_4 (Fixture)

GRID 0

FIG. 6 READOUT DISPLAY (T & R) ASSOCIATED WITH LJSF OR TJSF REMREED FRAMES

SHEET 1 of 4

951A CONNECTOR		ELVS DISPLAY	
0 15 1		217	317
		216	316
		215	315
		214	314
SW11		213	313
		212	312
		211	311
08		210	310
07		207	307
		206	306
		205	305
SW10		204	304
		203	303
		202	302
		201	301
0 00 1		200	300
		0(1)	1(R)

T_1 (Fixture)

951A CONNECTOR		ELVS DISPLAY	
0 15 1		237	337
		236	336
		235	335
		234	334
SW13		233	333
		232	332
		231	331
08		230	330
07		227	327
		226	326
		225	325
SW12		224	324
		223	323
		222	322
		221	321
0 00 1		220	320
		0(T)	1(R)

T_2 (Fixture)

951A CONNECTOR		ELVS DISPLAY	
0 15 1		257	357
		256	356
		255	355
		254	354
SW15		253	353
		252	352
		251	351
08		250	350
07		247	347
		246	346
		245	345
SW14		244	344
		243	343
		242	342
		241	341
0 00 1		240	340
		0(T)	1(R)

T_3 (Fixture)

951A CONNECTOR		ELVS DISPLAY	
0 15 1		277	377
		276	376
		275	375
		274	374
SW17		273	373
		272	372
		271	371
08		270	370
07		267	367
		266	366
		265	365
SW16		264	364
		263	363
		262	362
		261	361
0 00 1		260	360
		0(T)	1(R)

T_4 (Fixture)

GRID 1

FIG. 6 READOUT DISPLAY (T & R) ASSOCIATED WITH LJSF OR TJSF REMREED FRAMES

SHEET 2 of 4

951A CONNECTOR		ELVS DISPLAY	
0 15 1		417	517
		416	516
		415	515
		414	514
SW11		413	513
		412	512
		411	511
08		410	510
07		407	507
		406	506
		405	505
SW10		404	504
		403	503
		402	502
		401	501
0 00 1		400	500
		0(T)	1(R)

T_1 (Fixture)

951A CONNECTOR		ELVS DISPLAY	
0 15 1		437	537
		436	536
		435	535
		434	534
SW13		433	533
		432	532
		431	531
08		430	530
07		427	527
		426	526
		425	525
SW12		424	524
		423	523
		422	522
		421	521
0 00 1		420	520
		0(T)	1(R)

T_2 (Fixture)

951A CONNECTOR		ELVS DISPLAY	
0 15 1		457	557
		456	556
		455	555
		454	554
SW15		453	553
		452	552
		451	551
08		450	550
07		447	547
		446	546
		445	545
SW14		444	544
		443	543
		442	542
		441	541
0 00 1		440	540
		0(T)	1(R)

T_3 (Fixture)

951A CONNECTOR		ELVS DISPLAY	
0 15 1		477	577
		476	576
		475	575
		474	574
SW17		473	573
		472	572
		471	571
08		470	570
07		467	567
		466	566
		465	565
SW16		464	564
		463	563
		462	562
		461	561
0 00 1		460	560
		0(T)	1(R)

T_4 (Fixture)

GRID 2

FIG. 6 READOUT DISPLAY (T & R) ASSOCIATED WITH LJSF OR TJSF REMREED FRAMES

SHEET 3 OF 4

951A CONNECTOR

0 15 1

SW11

08

SW10

0 00 1

ELVS DISPLAY

617	717
616	716
615	715
614	714
613	713
612	712
611	711
610	710
607	707
606	706
605	705
604	704
603	703
602	702
601	701
600	700

0(1) 1(R)

T_1 (Fixture)

951A CONNECTOR

0 15 1

SW13

08

07

SW12

0 00 1

ELVS DISPLAY

637	737
636	736
635	735
634	734
633	733
632	732
631	731
630	730
627	727
626	726
625	725
624	724
623	723
622	722
621	721
620	720

0(T) 1(R)

T_2 (Fixture)

951A CONNECTOR

0 15 1

SW15

08

07

SW14

0 00 1

ELVS DISPLAY

657	757
656	756
655	755
654	754
653	753
652	752
651	751
650	750
647	747
646	746
645	745
644	744
643	743
642	742
641	741
640	740

0(T) 1(R)

T_3 (Fixture)

951A CONNECTOR

0 15 1

SW17

08

07

SW16

0 00 1

ELVS DISPLAY

677	777
676	776
675	775
674	774
673	773
672	772
671	771
670	770
667	767
666	766
665	765
664	764
663	763
662	762
661	761
660	760

0(T) 1(R)

T_4 (Fixture)

GRID 3

FIG. 6 READOUT DISPLAY (T & R) ASSOCIATED WITH LJSF OR TJSF REMREED FRAMES

JUNCTOR GROUPING FRAME (EVEN)
SHELF 0
ITE-9982 DET. 1 CORD

TERM NO.	CONN 4						CONN 6					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	3	1	4	614	714	3	3	1	6	616	716
32	2	2			414	514	3	2			416	516
31	3	1			214	314	3	1			216	316
30	3	0			014	114	3	0			016	116
23	2	3			614	714	2	3			616	716
22	2	2			414	514	2	2			416	516
21	2	1			214	314	2	1			216	316
20	2	0			014	114	2	0			016	116
13	1	3			614	714	1	3			616	716
12	1	2			414	514	1	2			416	516
11	1	1			214	314	1	1			216	316
10	1	0			014	114	1	0			016	116
03	0	3			614	714	0	3			616	716
02	0	2			414	514	0	2			416	516
01	0	1			214	314	0	1			216	316
00	0	0	1	4	014	114	0	0	1	6	016	116

TERM NO.	T.S. 0						T.S. 2					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	2	0	0	400	500	3	2	0	2	402	502
32	3	1			200	300	3	1			202	302
31	3	0			000	100	3	0			002	102
30	2	3			600	700	2	3			602	702
23	2	2			400	500	2	2			402	502
22	2	1			200	300	2	1			202	302
21	2	0			000	100	2	0			002	102
20	1	3			600	700	1	3			602	702
13	1	2			400	500	1	2			402	502
12	1	1			200	300	1	1			202	302
11	1	0			000	100	1	0			002	102
10	0	3			600	700	0	3			602	702
03	0	2			400	500	0	2			402	502
02	0	1			200	300	0	1			202	302
01	0	0			000	100	0	0			002	102
00	3	3	0	0	600	700	3	3	0	2	602	702

FIG. 7 READOUT DISPLAY (T & R) ASSOCIATED WITH LJSF OR TJSF ON JUNCTOR GROUPING FRAMES

JUNCTOR GROUPING FRAME (ODD)

SHELF 0

ITE-9982 DET. 9 CORD

TERM NO.	CONN 5						CONN 7					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	3	1	5	615	715	3	3	1	7	617	717
32	3	3	2		415	515	3	2			417	517
31	3	1			215	315	3	1			217	317
30	3	0	0		015	115	3	0			017	117
23	2	3			615	715	2	3			617	717
22	2	2			415	515	2	2			417	517
21	2	1			215	315	2	1			217	317
20	2	0			015	115	2	0			017	117
13	1	3			615	715	1	3			617	717
12	1	2			415	515	1	2			417	517
11	1	1			215	315	1	1			217	317
10	1	0			015	115	1	0			017	117
03	0	3			615	715	0	3			617	717
02	0	2			415	515	0	2			417	517
01	0	1			215	315	0	1			217	317
00	0	0	1	5	015	115	0	0	1	7	017	117

TERM NO.	T.S. 1						T.S. 3					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	2	0	1	401	501	3	2	0	3	403	503
32	3	1			201	301	3	1			203	303
31	3	0			001	101	3	0			003	103
30	2	3			601	701	2	3			603	703
23	2	2			401	501	2	2			403	503
22	2	1			201	301	2	1			203	303
21	2	0			001	101	2	0			003	103
20	1	3			601	701	1	3			603	703
13	1	2			401	501	1	2			403	503
12	1	1			201	301	1	1			203	303
11	1	0			001	101	1	0			003	103
10	0	3			601	701	0	3			603	703
03	0	2			401	501	0	2			403	503
02	0	1			201	301	0	1			203	303
01	0	0			001	101	0	0			003	103
00	3	3	0	1	601	701	3	3	0	3	603	703

JUNCTOR GROUPING FRAME (EVEN)

SHELF 1

ITE-9982 DET. 2 CORD

TERM NO.	CONN 4						CONN 6					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	3	0	4	604	704	3	3	0	6	606	706
32	3	2			404	504	3	2			406	506
31	3	1			204	304	3	1			206	306
30	3	0			004	104	3	0			006	106
23	2	3			604	704	2	3			606	706
22	2	2			404	504	2	2			406	506
21	2	1			204	304	2	1			206	306
20	2	0			004	104	2	0			006	106
13	1	3			604	704	1	3			606	706
12	1	2			404	504	1	2			406	506
11	1	1			204	304	1	1			206	306
10	1	0			004	104	1	0			006	106
03	0	3			604	704	0	3			606	706
02	0	2			404	504	0	2			406	506
01	0	1			204	304	0	1			206	306
00	0	0	0	4	004	104	0	0	0	6	006	106

TERM NO.	T.S. 0						T.S. 2					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	2	1	0	410	510	3	2	1	2	412	512
32	3	1			210	310	3	1			212	312
31	3	0			010	110	3	0			012	112
30	2	3			610	710	2	3			612	712
23	2	2			410	510	2	2			412	512
22	2	1			210	310	2	1			212	312
21	2	0			010	110	2	0			012	112
20	1	3			610	710	1	3			612	712
13	1	2			410	510	1	2			412	512
12	1	1			210	310	1	1			212	312
11	1	0			010	110	1	0			012	112
10	0	3			610	710	0	3			612	712
03	0	2			410	510	0	2			412	512
02	0	1			210	310	0	1			212	312
01	0	0			010	110	0	0			012	112
00	3	3	1	0	610	710	3	3	1	2	612	712

JUNCTOR GROUPING FRAME (ODD)
SHELF 1
ITE-9982 DET. 10 CORD

TERM NO.	CONN 5						CONN 7					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	3	0	5	605	705	3	3	0	7	607	707
32	3	2			405	505	3	2			407	507
31	3	1			205	305	3	1			207	307
30	3	0			005	105	3	0			007	107
23	2	3			605	705	2	3			607	707
22	2	2			405	505	2	2			407	507
21	2	1			205	305	2	1			207	307
20	2	0			005	105	2	0			007	107
13	1	3			605	705	1	3			607	707
12	1	2			405	505	1	2			407	507
11	1	1			205	305	1	1			207	307
10	1	0			005	105	1	0			007	107
03	0	3			605	705	0	3			607	707
02	0	2			405	505	0	2			407	507
01	0	1			205	305	0	1			207	307
00	0	0	0	5	005	105	0	0	0	7	007	107

TERM NO.	T.S. 1						T.S. 3					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	2	1	1	411	511	3	2	1	3	413	513
32	3	1			211	311	3	1			213	313
31	3	0			011	111	3	0			013	113
30	2	3			611	711	2	3			613	713
23	2	2			411	511	2	2			413	513
22	2	1			211	311	2	1			213	313
21	2	0			011	111	2	0			013	113
20	1	3			611	711	1	3			613	713
13	1	2			411	511	1	2			413	513
12	1	1			211	311	1	1			213	313
11	1	0			011	111	1	0			013	113
10	0	3			611	711	0	3			613	713
03	0	2			411	511	0	2			413	513
02	0	1			211	311	0	1			213	313
01	0	0			011	111	0	0			013	113
00	3	3	1	1	611	711	3	3	1	3	613	713

JUNCTOR GROUPING FRAME (EVEN)
SHELF 2

ITE-9982 DET. 3 CORD

TERM NO.	CONN 4						CONN 6					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	3	3	4	634	734	3	3	3	6	636	736
32	3	2			434	534	3	2			436	536
31	3	1			234	334	3	1			236	336
30	3	0			034	134	3	0			036	136
23	2	3			634	734	2	3			636	736
22	2	2			434	534	2	2			436	536
21	2	1			234	334	2	1			236	336
20	2	0			034	134	2	0			036	136
13	1	3			634	734	1	3			636	736
12	1	2			434	534	1	2			436	536
11	1	1			234	334	1	1			236	336
10	1	0			034	134	1	0			036	136
03	0	3			634	734	0	3			636	736
02	0	2			434	534	0	2			436	536
01	0	1			234	334	0	1			236	336
00	0	0	3	4	034	134	0	0	3	6	036	136

TERM NO.	T.S. 0						T. S. 2					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	2	2	2	0	420	520	2	2	2	2	422	522
32	2	1			220	320	2	1			222	322
31	2	0			020	120	2	0			022	122
30	1	3			620	720	1	3			622	722
23	1	2			420	520	1	2			422	522
22	1	1			220	320	1	1			222	322
21	1	0			020	120	1	0			022	122
20	0	3			620	720	0	3			622	722
13	0	2			420	520	0	2			422	522
12	0	1			220	320	0	1			222	322
11	0	0			020	120	0	0			022	122
10	3	3			620	720	3	3			622	722
03	3	2			420	520	3	2			422	522
02	3	1			220	320	3	1			222	322
01	3	0			020	120	3	0			022	122
00	2	3	2	0	620	120	2	3	2	2	622	722

JUNCTOR GROUPING FRAME (ODD)
SHELF 2
ITE-9982 DET. 11 CORD

TERM NO.	CONN 5						CONN 7					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	3	3	5	635	735	3	3	3	7	637	737
32	3	2			435	535	3	2			437	537
31	3	1			235	335	3	1			237	337
30	3	0			035	135	3	0			037	137
23	2	3			635	735	2	3			637	737
22	2	2			435	535	2	2			437	537
21	2	1			235	335	2	1			237	337
20	2	0			035	135	2	0			037	137
13	1	3			635	735	1	3			637	737
12	1	2			435	535	1	2			437	537
11	1	1			235	335	1	1			237	337
10	1	0			035	135	1	0			037	137
03	0	3			635	735	0	3			637	737
02	0	2			435	535	0	2			437	537
01	0	1			235	335	0	1			237	337
00	0	0	3	5	035	135	0	0	3	7	037	137

TERM NO.	T.S. 1						T.S. 3					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	2	2	2	1	421	521	2	2	2	3	423	523
32	2	1			221	321	2	1			223	323
31	2	0			021	121	2	0			023	123
30	1	3			621	721	1	3			623	723
23	1	2			421	521	1	2			423	523
22	1	1			221	321	1	1			223	323
21	1	0			021	121	1	0			023	123
20	0	3			621	721	0	3			623	723
13	0	2			421	521	0	2			423	523
12	0	1			221	321	0	1			223	323
11	0	0			021	121	0	0			023	123
10	3	3			621	721	3	3			623	723
03	3	2			421	521	3	2			423	523
02	3	1			221	321	3	1			223	323
01	3	0			021	121	3	0			023	123
00	2	3	2	1	621	721	2	3	2	3	623	723

JUNCTOR GROUPING FRAME (EVEN)
SHELF 3
ITE-9982 DET. 4 CORD

TERM NO.	CONN 4						CONN 6					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	3	2	4	624	724	3	3	2	6	626	726
32	3	2			424	524	3	2			426	526
31	3	1			224	324	3	1			226	326
30	3	0			024	124	3	0			026	126
23	2	3			624	724	2	3			626	726
22	2	2			424	524	2	2			426	526
21	2	1			224	324	2	1			226	326
20	2	0			024	124	2	0			026	126
13	1	3			624	724	1	3			626	726
12	1	2			424	524	1	2			426	526
11	1	1			224	324	1	1			226	326
10	1	0			024	124	1	0			026	126
03	0	3			624	724	0	3			626	726
02	0	2			424	524	0	2			426	526
01	0	1			224	324	0	1			226	326
00	0	0	2	4	024	124	0	0	2	6	026	126

TERM NO.	T.S. 0						T.S. 2					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	2	2	3	0	430	530	2	2	3	2	432	532
32	2	1			230	330	2	1			232	332
31	2	0			030	130	2	0			032	132
30	1	3			630	730	1	3			632	732
23	1	2			430	530	1	2			432	532
22	1	1			230	330	1	1			232	332
21	1	0			030	130	1	0			032	132
20	0	3			630	730	0	3			632	732
13	0	2			430	530	0	2			432	532
12	0	1			230	330	0	1			232	332
11	0	0			030	130	0	0			032	132
10	3	3			630	730	3	3			632	732
03	3	2			430	530	3	2			432	532
02	3	1			230	330	3	1			232	332
01	3	0			030	130	3	0			032	132
00	2	3	3	0	630	730	2	3	3	2	632	732

JUNCTOR GROUPING FRAME (ODD)

SHELF 3

ITE-9982 DET. 12 CORD

TERM NO.	CONN 5						CONN 7					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	3	2	5	625	725	3	3	2	7	627	727
32	3	2			425	525	3	2			427	527
31	3	1			225	325	3	1			227	327
30	3	0			025	125	3	0			027	127
23	2	3			625	725	2	3			627	727
22	2	2			425	525	2	2			427	527
21	2	1			225	325	2	1			227	327
20	2	0			025	125	2	0			027	127
13	1	3			625	725	1	3			627	727
12	1	2			425	525	1	2			427	527
11	1	1			225	325	1	1			227	327
10	1	0			025	125	1	0			027	127
03	0	3			625	725	0	3			627	727
02	0	2			425	525	0	2			427	527
01	0	1			225	325	0	1			227	327
00	0	0	2	5	025	125	0	0	2	7	027	127

TERM NO.	T.S. 1						T.S. 3					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	2	2	3	1	431	531	2	2	3	3	433	533
32	2	1			231	331	2	1			233	333
31	2	0			031	131	2	0			033	133
30	1	3			631	731	1	3			633	733
23	1	2			431	531	1	2			433	533
22	1	1			231	331	1	1			233	333
21	1	0			031	131	1	0			033	133
20	0	3			631	731	0	3			633	733
13	0	2			431	531	0	2			433	533
12	0	1			231	331	0	1			233	333
11	0	0			031	131	0	0			033	133
10	3	3			631	731	3	3			633	733
03	3	2			431	531	3	2			433	533
02	3	1			231	331	3	1			233	333
01	3	0			031	131	3	0			033	133
00	2	3	3	1	631	731	2	3	3	3	633	733

JUNCTOR GROUPING FRAME (EVEN)
SHELF 4
ITE-9982 DET. 5 CORD

TERM NO.	CONN 4						CONN 6					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	3	5	4	654	754	3	3	5	6	656	756
32	3	2			454	554	3	2			456	556
31	3	1			254	354	3	1			256	356
30	3	0			054	154	3	0			056	156
23	2	3			654	754	2	3			656	756
22	2	2			454	554	2	2			456	556
21	2	1			254	354	2	1			256	356
20	2	0			054	154	2	0			056	156
13	1	3			654	754	1	3			656	756
12	1	2			454	554	1	2			456	556
11	1	1			254	354	1	1			256	356
10	1	0			054	154	1	0			056	156
03	0	3			654	754	0	3			656	756
02	0	2			454	554	0	2			456	556
01	0	1			254	354	0	1			256	356
00	0	0	5	4	054	154	0	0	5	6	056	156

TERM NO.	T.S. 0						T. S. 2					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	1	2	4	0	440	540	1	2	4	2	442	542
32	1	1			240	340	1	1			242	342
31	1	0			040	140	1	0			042	142
30	0	3			640	740	0	3			642	742
23	0	2			440	540	0	2			442	542
22	0	1			240	340	0	1			242	342
21	0	0			040	140	0	0			040	142
20	3	3			640	740	3	3			642	742
13	3	2			440	540	3	2			442	542
12	3	1			240	340	3	1			242	342
11	3	0			040	140	3	0			042	142
10	2	3			640	740	2	3			642	742
03	2	2			440	540	2	2			442	542
02	2	1			240	340	2	1			242	342
01	2	0			040	140	2	0			042	142
00	1	3	4	0	640	740	1	3	4	2	642	742

JUNCTOR GROUPING FRAME (ODD)
SHELF 4

ITE-9982 DET. 13 CORD

TERM NO.	CONN 5						CONN 7					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	3	5	5	655	755	3	3	5	7	657	757
32	3	2			455	555	3	2			457	557
31	3	1			255	355	3	1			257	357
30	3	0			055	155	3	0			057	157
23	2	3			655	755	2	3			657	757
22	2	2			455	555	2	2			457	557
21	2	1			255	355	2	1			257	357
20	2	0			055	155	2	0			057	157
13	1	3			655	755	1	3			657	757
12	1	2			455	555	1	2			457	557
11	1	1			255	355	1	1			257	357
10	1	0			055	155	1	0			057	157
03	0	3			655	755	0	3			657	757
02	0	2			455	555	0	2			457	557
01	0	1			255	355	0	1			257	357
00	0	0	5	5	055	155	0	0	5	7	057	157

TERM NO.	T.S. 1						T.S. 3					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	1	2	4	1	441	541	1	2	4	3	443	543
32	1	1			241	341	1	1			243	343
31	1	0			041	141	1	0			043	143
30	0	3			641	741	0	3			643	743
23	0	2			441	541	0	2			443	543
22	0	1			241	341	0	1			243	343
21	0	0			041	141	0	0			043	143
20	3	3			641	741	3	3			643	743
13	3	2			441	541	3	2			443	543
12	3	1			241	341	3	1			243	343
11	3	0			041	141	3	0			043	143
10	2	3			641	741	2	3			643	743
03	2	2			441	541	2	2			443	543
02	2	1			241	341	2	1			243	343
01	2	0			041	141	2	0			043	143
00	1	3	4	1	641	741	1	3	4	3	643	743

JUNCTOR GROUPING FRAME (EVEN)
SHELF 5

ITE-9982 DET. 6 CORD

TERM NO.	CONN 4						CONN 6					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	3	4	4	644	744	3	3	4	6	646	746
32	3	2			444	544	3	2			446	546
31	3	1			244	344	3	1			246	346
30	3	0			044	144	3	0			046	146
23	2	3			644	744	2	3			646	746
22	2	2			444	544	2	2			446	546
21	2	1			244	344	2	1			246	346
20	2	0			044	144	2	0			046	146
13	1	3			644	744	1	3			646	746
12	1	2			444	544	1	2			446	546
11	1	1			244	344	1	1			246	346
10	1	0			044	144	1	0			046	146
03	0	3			644	744	0	3			646	746
02	0	2			444	544	0	2			446	546
01	0	1			244	344	0	1			246	346
00	0	0	4	4	044	144	0	0	4	6	046	146

TERM NO.	T.S. 0						T. S. 2					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	1	2	5	0	450	550	1	2	5	2	452	552
32	1	1			250	350	1	1			252	352
31	1	0			050	150	1	0			052	152
30	0	3			650	750	0	3			652	752
23	0	2			450	550	0	2			452	552
22	0	1			250	350	0	1			252	352
21	0	0			050	150	0	0			052	152
20	3	3			650	750	3	3			652	752
13	3	2			450	550	3	2			452	552
12	3	1			250	350	3	1			252	352
11	3	0			050	150	3	0			052	152
10	2	3			650	750	2	3			652	752
03	2	2			450	550	2	2			452	552
02	2	1			250	350	2	1			252	352
01	2	0			050	150	2	0			052	152
00	1	3	5	0	650	750	1	3	5	2	652	752

JUNCTOR GROUPING FRAME (ODD)

SHELF 5

ITE-9982 DET. 14 CORD

TERM NO.	CONN 5						CONN 7					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	3	4	5	645	745	3	3	4	7	647	747
32	3	2			445	545	3	2			447	547
31	3	1			245	345	3	1			247	347
30	3	0			045	145	3	0			047	147
23	2	3			645	745	2	3			647	747
22	2	2			445	545	2	2			447	547
21	2	1			245	345	2	1			247	347
20	2	0			045	145	2	0			047	147
13	1	3			645	745	1	3			647	747
12	1	2			445	545	1	2			447	547
11	1	1			245	345	1	1			247	347
10	1	0			045	145	1	0			047	147
03	0	3			645	745	0	3			647	747
02	0	2			445	545	0	2			447	547
01	0	1			245	345	0	1			247	347
00	0	0	4	5	045	145	0	0	4	7	047	147

TERM NO.	T.S. 1						T.S. 3					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	1	2	5	1	451	551	1	2	5	3	453	553
32	1	1			251	351	1	1			253	353
31	1	0			051	151	1	0			053	153
30	0	3			651	751	0	3			653	753
23	0	2			451	551	0	2			453	553
22	0	1			251	351	0	1			253	353
21	0	0			051	151	0	0			053	153
20	3	3			651	751	3	3			653	753
13	3	2			451	551	3	2			453	553
12	3	1			251	351	3	1			253	353
11	3	0			051	151	3	0			053	153
10	2	3			651	751	2	3			653	753
03	2	2			451	551	2	2			453	553
02	2	1			251	351	2	1			253	353
01	2	0			051	151	2	0			053	153
00	1	3	5	1	651	751	1	3	5	3	653	753

JUNCTOR GROUPING FRAME (EVEN)
SHELF 6
ITE-9982 DET. 7 CORD

TERM NO.	CONN 4						CONN 6					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	3	7	4	674	774	3	3	7	6	676	776
32	3	2			474	574	3	2			476	576
31	3	1			274	374	3	1			276	376
30	3	0			074	174	3	0			076	176
23	2	3			674	774	2	3			676	776
22	2	2			474	574	2	2			476	576
21	2	1			274	374	2	1			276	376
20	2	0			074	174	2	0			076	176
13	1	3			674	774	1	3			676	776
12	1	2			474	574	1	2			476	576
11	1	1			274	374	1	1			276	376
10	1	0			074	174	1	0			076	176
03	0	3			674	774	0	3			676	776
02	0	2			474	574	0	3			476	576
01	0	1			274	374	0	1			276	376
00	0	0	7	4	074	174	0	0	7	6	076	176

TERM NO.	T.S. 0						T.S. 2					
	CKT	GRID	SW	LV	T	T	CKT	GRID	SW	LV	T	R
33	0	2	6	0	460	560	0	2	6	2	462	562
32	0	1			260	360	0	1			262	362
31	0	0			060	160	0	0			062	162
30	3	3			660	760	3	3			662	762
23	3	2			460	560	3	2			462	562
22	3	1			260	360	3	1			262	362
21	3	0			060	160	3	0			062	162
20	2	3			660	760	2	3			662	762
13	2	2			460	560	2	2			462	562
12	2	1			260	360	2	1			262	362
11	2	0			060	160	2	0			062	162
10	1	3			660	760	1	3			662	762
03	1	2			460	560	1	2			462	562
02	1	1			260	360	1	1			262	362
01	1	0			060	160	1	0			062	162
00	0	3	6	0	660	760	0	3	6	2	662	762

JUNCTOR GROUPING FRAME (ODD)

SHELF 6

ITE-9982 DET. 15 CORD

TERM NO.	CONN 5						CONN 7					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	3	7	5	675	775	3	3	7	7	677	777
32	3	2			475	575	3	2			477	577
31	3	1			275	375	3	1			277	377
30	3	0			075	175	3	0			077	177
23	2	3			675	775	2	3			677	777
22	2	2			475	575	2	2			477	577
21	2	1			275	375	2	1			277	377
20	2	0			075	175	2	0			077	177
13	1	3			675	775	1	3			677	777
12	1	2			475	575	1	2			477	577
11	1	1			275	375	1	1			277	377
10	1	0			075	175	1	0			077	177
03	0	3			675	775	0	3			677	777
02	0	2			475	575	0	2			477	577
01	0	1			275	375	0	1			277	377
00	0	0	7	5	075	175	0	0	7	7	077	177

TERM NO.	T.S. 1						T.S. 3					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	0	2	6	1	461	561	0	2	6	3	463	563
32	0	1			261	361	0	1			263	363
31	0	0			061	161	0	0			063	163
30	3	3			661	761	3	3			663	763
23	3	2			461	561	3	2			463	563
22	3	1			261	361	3	1			263	363
21	3	0			061	161	3	0			063	163
20	2	3			661	761	2	3			663	763
13	2	2			461	561	2	2			463	563
12	2	1			261	361	2	1			263	363
11	2	0			061	161	2	0			063	163
10	1	3			661	761	1	3			663	763
03	1	2			461	561	1	2			463	563
02	1	1			261	361	1	1			263	363
01	1	0			061	161	1	0			063	163
00	0	3	6	1	661	761	0	3	6	3	663	763

JUNCTOR GROUPING FRAME (EVEN)
SHELF 7
ITE-9982 DET. 8 CORD

TERM NO.	CONN 4						CONN 6					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	3	6	4	664	764	3	3	6	6	666	766
32	3	2			464	564	3	2			466	566
31	3	1			264	364	3	1			266	366
30	3	0			064	164	3	0			066	166
23	2	3			664	764	2	3			666	766
22	2	2			464	564	2	2			466	566
21	2	1			264	364	2	1			266	366
20	2	0			064	164	2	0			066	166
13	1	3			664	764	1	3			666	766
12	1	2			464	563	1	2			466	566
11	1	1			264	364	1	1			266	366
10	1	0			064	164	1	0			066	166
03	0	3			664	764	0	3			666	766
02	0	2			464	564	0	2			466	566
01	0	1			264	364	0	1			266	366
00	0	0	6	4	064	164	0	0	6	6	066	166

TERM NO.	T.S. 0						T. S. 2					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	0	2	7	0	470	570	0	2	7	2	472	572
32	0	1			270	370	0	1			272	372
31	0	0			070	170	0	0			072	172
30	3	3			670	770	3	3			672	772
23	3	2			470	570	3	2			472	572
22	3	1			270	370	3	1			272	372
21	3	0			070	170	3	0			072	172
20	2	3			670	770	2	3			672	772
13	2	2			470	570	2	2			472	572
12	2	1			270	370	2	1			272	372
11	2	0			070	170	2	0			072	172
10	1	3			670	770	1	3			672	772
03	1	2			470	570	1	2			472	572
02	1	1			270	370	1	1			272	372
01	1	0			070	170	1	0			072	172
00	0	3	7	0	670	770	0	3	7	2	672	772

JUNCTOR GROUPING FRAME (ODD)

SHELF 7

ITE-9982 DET. 16 CORD

TERM NO.	CONN 5						CONN 7					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	3	3	6	5	665	765	3	3	6	7	667	767
32	3	2			465	565	3	2			467	567
31	3	1			265	365	3	1			267	367
30	3	0			065	165	3	0			067	167
23	2	3			665	765	2	3			667	767
22	2	2			465	565	2	2			467	567
21	2	1			265	365	2	1			267	367
20	2	0			065	165	2	0			067	167
13	1	3			665	765	1	3			667	767
12	1	2			465	565	1	2			467	567
11	1	1			265	365	1	1			267	367
10	1	0			065	165	1	0			067	167
03	0	3			665	765	0	3			667	767
02	0	2			465	565	0	2			467	567
01	0	1			265	365	0	1			267	367
00	0	0	6	5	065	165	0	0	6	7	067	167

TERM NO.	T.S. 1						T.S. 3					
	CKT	GRID	SW	LV	T	R	CKT	GRID	SW	LV	T	R
33	0	2	7	1	471	571	0	2	7	3	473	573
32	0	1			271	371	0	1			273	373
31	0	0			071	171	0	0			073	173
30	3	3			671	771	3	3			673	773
23	3	2			471	571	3	2			473	573
22	3	1			271	371	3	1			273	373
21	3	0			071	171	3	0			073	173
20	2	3			671	771	2	3			673	773
13	2	2			471	571	2	2			473	573
12	2	1			271	371	2	1			273	373
11	2	0			071	171	2	0			073	173
10	1	3			671	771	1	3			673	773
03	1	2			471	571	1	2			473	573
02	1	1			271	371	1	1			273	373
01	1	0			071	171	1	0			073	173
00	0	3	7	1	671	771	0	3	7	3	673	773

FIG. 7 READOUT DISPLAY (T & R)
ASSOCIATED WITH LJSF OR TJSF
ON JUNCTOR GROUPING FRAMES

FERREED ONLY

FRAME 0, GRID 0

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
O-W	1	006	33	046	G-W	O-W	1	00	33	047	G-W
	2	106	34	146			2	10	34	147	
	3	004	35	044			3	00	35	045	
	4	104	36	144			4	10	36	145	
	5	002	37	042			5	00	37	043	
	6	102	38	142			6	103	38	143	
	7	000	39	040			7	001	39	041	
	8	100	40	140			8	101	40	141	
	9	016	41	056			9	017	41	057	
	10	116	42	156			10	117	42	157	
	11	014	43	054			11	015	43	055	
	12	114	44	154			12	115	44	155	
	13	012	45	052			13	013	45	053	
	14	112	46	152			14	113	46	153	
	15	010	47	050			15	011	47	051	
	16	110	48	150			16	111	48	151	
	17	026	49	066			17	027	49	067	
	18	126	50	166			18	127	50	167	
	19	024	51	064			19	025	51	065	
	20	124	52	164			20	125	52	165	
	21	022	53	062			21	023	53	063	
	22	122	54	162			22	123	54	163	
	23	020	55	060			23	021	55	061	
	24	120	56	160			24	121	56	161	
	25	036	57	076			25	037	57	077	
	26	136	58	176			26	137	58	177	
	27	034	59	074			27	035	59	075	
	28	134	60	174			28	135	60	175	
	29	032	61	072			29	033	61	073	
	30	132	62	172			30	133	62	173	
	31	030	63	070			31	031	63	071	
	32	130	64	170			32	131	64	171	

CABLE VG400A VG500A VG403A VG500A
VG300A VG303A

FIG. 8 READOUT DISPLAY (T & R) ASSOCIATED WITH LJSF OR TJSF (FERREED) ON 711 CONNECTORS

SHEET 1 of 16

FERREED ONLY

FRAME 0, GRID 1

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
S	1	206	33	246	BL-W	S	1	207	33	247	BL-W
	2	306	34	346			2	307	34	347	
	3	204	35	244			3	205	35	245	
	4	304	36	344			4	305	36	345	
	5	202	37	242			5	203	37	243	
	6	302	38	342			6	303	38	343	
	7	200	39	240			7	201	39	241	
	8	300	40	340			8	301	40	341	
	9	216	41	256			9	217	41	257	
	10	316	42	356			10	317	42	357	
	11	214	43	254			11	215	43	255	
	12	314	44	354			12	315	44	355	
	13	212	45	252			13	213	45	253	
	14	312	46	352			14	313	46	353	
	15	210	47	250			15	211	47	251	
	16	310	48	350			16	311	48	351	
	17	226	49	266			17	227	49	267	
	18	326	50	366			18	327	50	367	
	19	224	51	264			19	225	51	265	
	20	324	52	364			20	325	52	365	
	21	222	53	262			21	223	53	263	
	22	322	54	362			22	323	54	363	
	23	220	55	260			23	221	55	261	
	24	320	56	360			24	321	56	361	
	25	236	57	276			25	237	57	277	
	26	336	58	376			26	337	58	377	
	27	234	59	274			27	235	59	275	
	28	334	60	374			28	335	60	375	
	29	232	61	272			29	233	61	273	
	30	332	62	372			30	333	62	373	
	31	230	63	270			31	231	63	271	
	32	330	64	370			32	331	64	371	

CABLE VG400A VG500A VG403A VG503A
VG300A VG303A

FERREED ONLY

FRAME 0, GRID 2

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
G	1	406	33	446	BR	G	1	407	33	447	BR
	2	506	34	546			2	507	34	547	
	3	404	35	444			3	405	35	445	
	4	504	36	544			4	505	36	545	
	5	402	37	442			5	403	37	443	
	6	502	38	542			6	503	38	543	
	7	400	39	440			7	401	39	441	
	8	500	40	540			8	501	40	541	
	9	416	41	456			9	417	41	457	
	10	516	42	556			10	517	42	557	
	11	414	43	454			11	415	43	455	
	12	514	44	554			12	515	44	555	
	13	412	45	452			13	413	45	453	
	14	512	46	552			14	513	46	553	
	15	410	47	450			15	411	47	451	
	16	510	48	550			16	511	48	551	
	17	426	49	466			17	427	49	467	
	18	526	50	566			18	527	50	567	
	19	424	51	464			19	425	51	465	
	20	524	52	564			20	525	52	565	
	21	422	53	462			21	423	53	463	
	22	522	54	562			22	523	54	563	
	23	420	55	460			23	421	55	461	
	24	520	56	560			24	521	56	561	
	25	436	57	476			25	437	57	477	
	26	536	58	576			26	537	58	577	
	27	434	59	474			27	435	59	475	
	28	534	60	574			28	535	60	575	
	29	432	61	472			29	433	61	473	
	30	532	62	572			30	533	62	573	
	31	430	63	470			31	431	63	471	
	32	530	64	570			32	531	64	571	

CABLE	VG400A	VG500A		VG403A	VG500A
	VG300A			VG303A	

FERREED ONLY.

FRAME 0, GRID 3,

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
BL	1	606	33	646	0	BL	1	607	33	647	0
	2	706	34	746			2	707	34	747	
	3	604	35	644			3	605	35	645	
	4	704	36	744			4	705	36	745	
	5	602	37	642			5	603	37	643	
	6	702	38	742			6	703	38	743	
	7	600	39	640			7	601	39	641	
	8	700	40	740			8	701	40	741	
	9	616	41	656			9	617	41	657	
	10	716	42	756			10	717	42	757	
	11	614	43	654			11	615	43	655	
	12	714	44	754			12	715	44	755	
	13	612	45	652			13	613	45	653	
	14	712	46	752			14	713	46	753	
	15	610	47	650			15	611	47	651	
	16	710	48	750			16	711	48	751	
	17	626	49	666			17	627	49	667	
	18	726	50	766			18	727	50	767	
	19	624	51	664			19	625	51	665	
	20	724	52	764			20	725	52	765	
	21	622	53	662			21	623	53	663	
	22	722	54	762			22	723	54	763	
	23	620	55	660			23	621	55	661	
	24	720	56	760			24	721	56	761	
	25	636	57	676			25	637	57	677	
	26	736	58	776			26	737	58	777	
	27	634	59	674			27	635	59	675	
	28	734	60	774			28	735	60	775	
	29	632	61	672			29	633	61	673	
	30	732	62	772			30	733	62	773	
	31	630	63	670			31	631	63	671	
	32	730	64	770			32	731	64	771	

CABLE VG400A VG500A VG403A VG503A
VG300A VG303A

FERREED ONLY

FRAME 1, GRID 0

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
O-W	1	020	33	060	G-W	O-W	1	021	33	061	G-W
	2	120	34	160			2	121	34	161	
	3	036	35	076			3	037	35	077	
	4	136	36	176			4	137	36	177	
	5	034	37	074			5	035	37	075	
	6	134	38	174			6	135	38	175	
	7	032	39	072			7	033	39	073	
	8	132	40	172			8	133	40	173	
	9	030	41	070			9	031	41	071	
	10	130	42	170			10	131	42	171	
	11	006	43	046			11	007	43	047	
	12	106	44	146			12	107	44	147	
	13	004	45	044			13	005	45	045	
	14	104	46	144			14	105	46	145	
	15	002	47	042			15	003	47	043	
	16	102	48	142			16	103	48	143	
	17	000	49	040			17	001	49	041	
	18	100	50	140			18	101	50	141	
	19	016	51	056			19	017	51	057	
	20	116	52	156			20	117	52	157	
	21	014	53	054			21	015	53	055	
	22	114	54	154			22	115	54	155	
	23	012	55	052			23	013	55	053	
	24	112	56	152			24	113	56	153	
	25	010	57	050			25	011	57	051	
	26	110	58	150			26	111	58	151	
	27	026	59	066			27	027	59	067	
	28	126	60	166			28	127	60	167	
	29	024	61	064			29	025	61	065	
	30	124	62	164			30	125	62	165	
	31	022	63	062			31	023	63	063	
	32	122	64	162			32	123	64	163	

CABLE VG400B VG500B VG403B VG503B
VG300B VG303B

FERREED ONLY

FRAME 1, GRID 1

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
S	1	220	33	260	BL-W	S	1	221	33	261	BL-W
	2	320	34	360			2	321	34	361	
	3	236	35	276			3	237	35	277	
	4	336	36	376			4	337	36	377	
	5	234	37	274			5	235	37	275	
	6	334	38	374			6	335	38	375	
	7	232	39	272			7	233	39	273	
	8	332	40	372			8	333	40	373	
	9	230	41	270			9	231	41	271	
	10	330	42	370			10	331	42	371	
	11	206	43	246			11	207	43	247	
	12	306	44	346			12	307	44	347	
	13	204	45	244			13	205	45	245	
	14	304	46	344			14	305	46	345	
	15	202	47	242			15	203	47	243	
	16	302	48	342			16	303	48	343	
	17	200	49	240			17	201	49	241	
	18	300	50	340			18	301	50	341	
	19	216	51	256			19	217	51	257	
	20	316	52	356			20	317	52	357	
	21	214	53	254			21	215	53	255	
	22	314	54	354			22	315	54	355	
	23	212	55	252			23	213	55	253	
	24	312	56	352			24	313	56	353	
	25	210	57	250			25	211	57	251	
	26	310	58	350			26	311	58	351	
	27	226	59	266			27	227	59	267	
	28	326	60	366			28	327	60	367	
	29	224	61	264			29	225	61	265	
	30	324	62	364			30	325	62	365	
	31	222	63	262			31	223	63	263	
	32	322	64	362			32	323	64	363	

CABLE	VG400B	VG500B		VG403B	VG503B
	VG300B			VG303B	

FERREED ONLY

FRAME 1, GRID 2

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
G	1	420	33	460	BR	G	1	421	33	461	BR
	2	520	34	560			2	521	34	561	
	3	436	35	476			3	437	35	477	
	4	536	36	576			4	537	36	577	
	5	434	37	474			5	435	37	475	
	6	534	38	574			6	535	38	575	
	7	432	39	472			7	433	39	473	
	8	532	40	572			8	533	40	573	
	9	430	41	470			9	431	41	471	
	10	530	42	570			10	531	42	571	
	11	406	43	446			11	407	43	447	
	12	506	44	546			12	507	44	547	
	13	404	45	444			13	405	45	445	
	14	504	46	544			14	505	46	545	
	15	402	47	442			15	403	47	443	
	16	502	48	542			16	503	48	543	
	17	400	49	440			17	401	49	441	
	18	500	50	540			18	501	50	541	
	19	416	51	456			19	417	51	457	
	20	516	52	556			20	517	52	557	
	21	414	53	454			21	415	53	455	
	22	514	54	554			22	515	54	555	
	23	412	55	452			23	413	55	453	
	24	512	56	552			24	513	56	553	
	25	410	57	450			25	411	57	451	
	26	510	58	550			26	511	58	551	
	27	426	59	466			27	427	59	467	
	28	526	60	566			28	527	60	567	
	29	424	61	464			29	425	61	465	
	30	524	62	564			30	525	62	565	
	31	422	63	462			31	423	63	463	
	32	522	64	562			32	523	64	563	

CABLE	VG400B	VG500B		VG403B	VG500B
		VG300B			VG303B

SHEET 7 of 16

FERREED ONLY

FRAME 1, GRID 3

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
BL	1	620	33	660	0	BL	1	621	33	661	0
	2	720	34	760			2	721	34	761	
	3	636	35	676			3	637	35	677	
	4	736	36	776			4	737	36	777	
	5	634	37	674			5	635	37	675	
	6	734	38	774			6	735	38	775	
	7	632	39	672			7	633	39	673	
	8	732	40	772			8	733	40	773	
	9	630	41	670			9	631	41	671	
	10	730	42	770			10	731	42	771	
	11	606	43	646			11	607	43	647	
	12	706	44	746			12	707	44	747	
	13	604	45	644			13	605	45	645	
	14	704	46	744			14	705	46	745	
	15	602	47	642			15	603	47	643	
	16	702	48	742			16	703	48	743	
	17	600	49	640			17	601	49	641	
	18	700	50	740			18	701	50	741	
	19	616	51	656			19	617	51	657	
	20	716	52	756			20	717	52	757	
	21	614	53	654			21	615	53	655	
	22	714	54	754			22	715	54	755	
	23	612	55	652			23	613	55	653	
	24	712	56	752			24	713	56	753	
	25	610	57	650			25	611	57	651	
	26	710	58	750			26	711	58	751	
	27	626	59	666			27	627	59	667	
	28	726	60	766			28	727	60	767	
	29	624	61	664			29	625	61	665	
	30	724	62	764			30	725	62	765	
	31	622	63	662			31	623	63	663	
	32	722	64	762			32	723	64	763	

CABLE VG400B VG500B VG403B VG503B

VG300B VG303B

FERREED ONLY

FRAME 2, GRID 0

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
O-W	1	012	33	052	G-W	O-W	1	013	33	053	G-W
	2	112	34	152			2	113	34	153	
	3	010	35	050			3	011	35	051	
	4	110	36	150			4	111	36	151	
	5	026	37	066			5	027	37	067	
	6	126	38	166			6	127	38	167	
	7	024	39	064			7	025	39	065	
	8	124	40	164			8	125	40	165	
	9	022	41	062			9	023	41	063	
	10	122	42	162			10	123	42	163	
	11	020	43	060			11	021	43	061	
	12	120	44	160			12	121	44	161	
	13	036	45	076			13	037	45	077	
	14	136	46	176			14	137	46	177	
	15	034	47	074			15	035	47	075	
	16	134	48	174			16	135	48	175	
	17	032	49	072			17	033	49	073	
	18	132	50	172			18	133	50	173	
	19	030	51	070			19	031	51	071	
	20	130	52	170			20	131	52	171	
	21	006	53	046			21	007	53	047	
	22	106	54	146			22	107	54	147	
	23	004	55	044			23	005	55	045	
	24	104	56	144			24	105	56	145	
	25	002	57	042			25	003	57	043	
	26	102	58	142			26	103	58	143	
	27	000	59	040			27	001	59	041	
	28	100	60	140			28	101	60	141	
	29	016	61	056			29	017	61	057	
	30	116	62	156			30	117	62	157	
	31	014	63	054			31	015	63	055	
	32	114	64	154			32	115	64	155	

CABLE VG400C VG500C VG403C VG503C

VG300C VG303C

FERREED ONLY

FRAME 2, GRID 1

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
S	1	212	33	252	BL-W	S	1	213	33	253	BL-W
	2	312	34	352			2	313	34	353	
	3	210	35	250			3	211	35	251	
	4	310	36	350			4	311	36	351	
	5	226	37	266			5	227	37	267	
	6	326	38	366			6	327	38	367	
	7	224	39	264			7	225	39	265	
	8	324	40	364			8	325	40	365	
	9	222	41	262			9	223	41	263	
	10	322	42	362			10	323	42	363	
	11	220	43	260			11	221	43	261	
	12	320	44	360			12	321	44	361	
	13	236	45	276			13	237	45	277	
	14	336	46	376			14	337	46	371	
	15	234	47	274			15	235	47	275	
	16	334	48	374			16	335	48	375	
	17	232	49	272			17	233	49	273	
	18	332	50	372			18	333	50	373	
	19	230	51	270			19	231	51	271	
	20	330	52	370			20	331	52	371	
	21	206	53	246			21	207	53	247	
	22	306	54	346			22	307	54	347	
	23	204	55	244			23	205	55	245	
	24	304	56	344			24	305	56	345	
	25	202	57	242			25	203	57	243	
	26	302	58	342			26	303	58	343	
	27	200	59	240			27	201	59	241	
	28	300	60	340			28	301	60	341	
	29	216	61	256			29	217	61	257	
	30	316	62	356			30	317	62	357	
	31	214	63	254			31	215	63	255	
	32	314	64	354			32	315	64	355	

CABLE	VG400C	VG500C		VG403C	VG503C
	VG300C			VG303C	

FERREED ONLY

FRAME 2, GRID 2

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	11 PCHG	DISPLAY	BDR
G	1	412	33	452	BR	G	1	413	33	453	BR
	2	512	34	552			2	513	34	553	
	3	410	35	450			3	411	35	451	
	4	510	36	550			4	511	36	551	
	5	426	37	466			5	427	37	467	
	6	526	38	566			6	527	38	567	
	7	424	39	464			7	425	39	465	
	8	524	40	564			8	525	40	565	
	9	422	41	462			9	423	41	463	
	10	522	42	562			10	523	42	563	
	11	420	43	460			11	421	43	461	
	12	520	44	560			12	521	44	561	
	13	436	45	476			13	437	45	477	
	14	536	46	576			14	537	46	577	
	15	434	47	474			15	435	47	475	
	16	534	48	574			16	535	48	575	
	17	432	49	472			17	433	49	473	
	18	532	50	572			18	533	50	573	
	19	430	51	470			19	431	51	471	
	20	530	52	570			20	531	52	571	
	21	406	53	446			21	407	53	447	
	22	506	54	546			22	507	54	547	
	23	404	55	444			23	405	55	445	
	24	504	56	544			24	505	56	545	
	25	402	57	442			25	403	57	443	
	26	502	58	542			26	503	58	543	
	27	400	59	440			27	401	59	441	
	28	500	60	540			28	501	60	541	
	29	416	61	456			29	417	61	457	
	30	516	62	556			30	517	62	557	
	31	414	63	454			31	415	63	455	
	32	514	64	554			32	515	64	555	

CABLE VG400C VG500C VG403C VG503C
VG300C VG303C

FERREED ONLY

FRAME 2, GRID 3

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
BL	1	612	33	652	0	BL	1	613	33	653	0
	2	712	34	752			2	713	34	753	
	3	610	35	650			3	611	35	651	
	4	710	36	750			4	711	36	751	
	5	626	37	666			5	627	37	667	
	6	726	38	766			6	727	38	767	
	7	624	39	664			7	625	39	665	
	8	724	40	764			8	725	40	765	
	9	622	41	662			9	623	41	663	
	10	722	42	762			10	723	42	763	
	11	620	43	660			11	621	43	661	
	12	720	44	760			12	721	44	761	
	13	636	45	676			13	637	45	677	
	14	736	46	776			14	737	46	777	
	15	634	47	674			15	635	47	675	
	16	734	48	774			16	735	48	775	
	17	632	49	672			17	633	49	673	
	18	732	50	772			18	733	50	773	
	19	630	51	670			19	631	51	671	
	20	730	52	770			20	731	52	771	
	21	606	53	646			21	607	53	647	
	22	706	54	746			22	707	54	747	
	23	604	55	644			23	605	55	645	
	24	704	56	744			24	705	56	745	
	25	602	57	642			25	603	57	643	
	26	702	58	742			26	703	58	743	
	27	600	59	640			27	601	59	641	
	28	700	60	740			28	701	60	741	
	29	616	61	656			29	617	61	657	
	30	716	62	756			30	717	62	757	
	31	614	63	754			31	615	63	655	
	32	714	64	754			32	715	64	755	

CABLE VG400C VG500C VG403C VG503C

VG300C VG303C

FERREED ONLY

FRAME 3, GRID 0

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
O-W	1	004	33	044	G-W	O-W	1	005	33	045	G-W
	2	104	34	144			2	105	34	145	
	3	002	35	042			3	003	35	043	
	4	102	36	142			4	103	36	143	
	5	000	37	040			5	001	37	041	
	6	100	38	140			6	101	38	141	
	7	016	39	056			7	017	39	057	
	8	116	40	156			8	117	40	157	
	9	014	41	054			9	015	41	055	
	10	114	42	154			10	115	42	155	
	11	012	43	052			11	013	43	053	
	12	112	44	152			12	113	44	153	
	13	010	45	050			13	011	45	051	
	14	110	46	150			14	111	46	151	
	15	026	47	066			15	027	47	067	
	16	126	48	166			16	127	48	167	
	17	024	49	064			17	025	49	065	
	18	124	50	164			18	125	50	165	
	19	022	51	062			19	023	51	063	
	20	122	52	162			20	123	52	163	
	21	020	53	060			21	021	53	061	
	22	120	54	160			22	121	54	161	
	23	036	55	076			23	037	55	077	
	24	136	56	176			24	137	56	177	
	25	034	57	074			25	035	57	075	
	26	134	58	174			26	135	58	175	
	27	032	59	072			27	033	59	073	
	28	132	60	172			28	133	60	173	
	29	030	61	070			29	031	61	071	
	30	130	62	170			30	131	62	171	
	31	006	63	046			31	007	63	047	
	32	106	64	146			32	107	64	147	

CABLE VG400D VG500D VG403D VG503D
VG300D VG303D

FERREED ONLY

FRAME 3, GRID 1

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
S	1	204	33	244	BL-W	S	1	205	33	245	BL-W
	2	304	34	344			3	305	34	345	
	3	202	35	242			3	203	35	243	
	4	302	36	342			4	303	36	343	
	5	200	37	240			5	201	37	241	
	6	300	38	340			6	301	38	341	
	7	216	39	256			7	217	39	257	
	8	316	40	356			8	317	40	357	
	9	214	41	254			9	215	41	255	
	10	314	42	354			10	315	42	355	
	11	212	43	252			11	213	43	253	
	12	312	44	352			12	313	44	353	
	13	210	45	250			13	211	45	251	
	14	310	46	350			14	311	46	351	
	15	226	47	266			15	227	47	267	
	16	326	48	366			16	327	48	367	
	17	224	49	264			17	225	49	265	
	18	324	50	364			18	325	50	365	
	19	222	51	262			19	223	51	263	
	20	322	52	362			20	323	52	363	
	21	220	53	260			21	221	53	261	
	22	320	54	360			22	321	54	361	
	23	236	55	276			23	237	55	277	
	24	336	56	376			24	337	56	377	
	25	234	57	274			25	235	57	275	
	26	334	58	374			26	335	58	375	
	27	232	59	272			27	233	59	273	
	28	332	60	372			28	333	60	373	
	29	230	61	270			29	231	61	271	
	30	330	62	370			30	331	62	371	
	31	206	63	246			31	207	63	247	
	32	306	64	346			32	307	64	347	

CABLE VG400D VG500D VG403D VG503D

VG300D VG303D

FERREED ONLY

FRAME 3, GRID 2

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
G	1	404	33	444	BR	G	1	405	33	445	BR
	2	504	34	544			2	505	34	545	
	3	402	35	442			3	403	35	443	
	4	502	36	542			4	503	36	543	
	5	400	37	440			5	401	37	441	
	6	500	38	540			6	501	38	541	
	7	416	39	456			7	417	39	457	
	8	516	40	556			8	517	40	557	
	9	414	41	454			9	415	41	455	
	10	514	42	554			10	515	42	555	
	11	412	43	452			11	413	43	453	
	12	512	44	552			12	513	44	553	
	13	410	45	450			13	411	45	451	
	14	510	46	550			14	511	46	551	
	15	426	47	466			15	427	47	467	
	16	526	48	566			16	527	48	567	
	17	424	49	464			17	425	49	465	
	18	524	50	564			18	525	50	565	
	19	422	51	462			19	423	51	463	
	20	522	52	562			20	523	52	563	
	21	420	53	460			21	421	53	461	
	22	520	54	560			22	521	54	561	
	23	436	55	476			23	437	55	477	
	24	536	56	576			24	537	56	577	
	25	434	57	474			25	435	57	475	
	26	534	58	574			26	535	58	575	
	27	432	59	472			27	433	59	473	
	28	532	60	572			28	533	60	573	
	29	430	61	470			29	431	61	471	
	30	530	62	570			30	531	62	571	
	31	406	63	446			31	407	63	447	
	32	506	64	546			32	507	64	547	

CABLE VG400D VG500D VG403D VG5003D
VG300D VG303D

FERREED ONLY

FRAME 3, GRID 3

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
BL	1	604	33	644	0	BL	1	605	33	645	0
	2	704	34	744			2	705	34	745	
	3	602	35	642			3	603	35	643	
	4	702	36	742			4	703	36	743	
	5	600	37	640			5	601	37	641	
	6	700	38	740			6	701	38	741	
	7	616	39	656			7	617	39	657	
	8	716	40	756			8	717	40	757	
	9	614	41	654			9	615	41	655	
	10	714	42	754			10	715	42	755	
	11	612	43	652			11	613	43	653	
	12	712	44	752			12	713	44	753	
	13	610	45	650			13	611	45	651	
	14	710	46	750			14	711	46	751	
	15	626	47	666			15	627	47	667	
	16	726	48	766			16	727	48	767	
	17	624	49	664			17	625	49	665	
	18	724	50	764			18	725	50	765	
	19	622	51	662			19	623	51	663	
	20	722	52	762			20	723	52	763	
	21	620	53	660			21	621	53	661	
	22	720	54	760			22	721	54	761	
	23	636	55	676			23	637	55	677	
	24	736	56	776			24	737	56	777	
	25	634	57	674			25	635	57	675	
	26	734	58	774			26	735	58	775	
	27	632	59	672			27	633	59	673	
	28	732	60	772			28	733	60	773	
	29	630	61	670			29	631	61	671	
	30	730	62	770			30	731	62	771	
	31	606	63	646			31	607	63	647	
	32	706	64	746			32	707	64	747	

CABLE VG400D VG500D VG403D VG503D

VG 300D VG303D

FIG. 8 READOUT DISPLAY (T & R) ASSOCIATED WITH LJSF OR TJSF (FERREED) ON 711 CONNECTORS

REMREED ONLY

CIRCUIT 0, GRID 0

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
BL	1	000	33	040	0	BL	1	027	33	067	0
	2	100	34	140			2	127	34	167	
	3	002	35	042			3	031	35	071	
	4	102	36	142			4	131	36	171	
	5	004	37	044			5	033	37	073	
	6	104	38	144			6	133	38	173	
	7	006	39	046			7	035	39	075	
	8	106	40	146			8	135	40	175	
	9	010	41	050			9	037	41	077	
	10	110	42	150			10	137	42	177	
	11	012	43	052			11	001	43	041	
	12	112	44	152			12	101	44	141	
	13	014	45	054			13	003	45	043	
	14	114	46	154			14	103	46	143	
	15	016	47	056			15	005	47	045	
	16	116	48	156			16	105	48	145	
	17	020	49	060			17	007	49	047	
	18	120	50	160			18	107	50	147	
	19	022	51	062			19	011	51	051	
	20	122	52	162			20	111	52	151	
	21	024	53	064			21	013	53	053	
	22	124	54	164			22	113	54	153	
	23	026	55	066			23	015	55	055	
	24	126	56	166			24	115	56	155	
	25	030	57	070			25	017	57	057	
	26	130	58	170			26	117	58	157	
	27	032	59	072			27	021	59	061	
	28	132	60	172			28	121	60	161	
	29	034	61	074			29	023	61	063	
	30	134	62	174			30	123	62	163	
	31	036	63	076			31	025	63	065	
	32	136	64	176			32	125	64	165	

CABLE XG9A XG109A XG10A XG110A

XU1A XU2A

FIG. 9 READOUT DISPLAY (T & R) ASSOCIATED WITH LJSF OR TJSF (REMREED) ON 711 CONNECTORS

REMREED ONLY

CIRCUIT 0, GRID 1

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
G	1	200	33	240	BR	G	1	227	33	267	BR
	2	300	34	340			2	327	34	367	
	3	202	35	242			3	231	35	271	
	4	302	36	342			4	331	36	371	
	5	204	37	244			5	233	37	273	
	6	304	38	344			6	333	38	373	
	7	206	39	246			7	235	39	275	
	8	306	40	346			8	335	40	375	
	9	210	41	250			9	237	41	277	
	10	310	42	350			10	337	42	377	
	11	212	43	252			11	201	43	241	
	12	312	44	352			12	301	44	341	
	13	214	45	254			13	203	45	243	
	14	314	46	354			14	303	46	343	
	15	216	47	256			15	205	47	245	
	16	316	48	356			16	305	48	345	
	17	220	49	260			17	207	49	247	
	18	320	50	360			18	307	50	347	
	19	222	51	262			19	211	51	251	
	20	322	52	362			20	311	52	351	
	21	224	53	264			21	213	53	253	
	22	324	54	364			22	313	54	353	
	23	226	55	266			23	215	55	255	
	24	326	56	366			24	315	56	355	
	25	230	57	270			25	217	57	257	
	26	330	58	370			26	317	58	357	
	27	232	59	272			27	221	59	261	
	28	332	60	372			28	321	60	361	
	29	234	61	274			29	223	61	263	
	30	334	62	374			30	323	62	363	
	31	236	63	276			31	225	63	265	
	32	336	64	376			32	325	64	365	

CABLE	XG9A	XG109A	XG10A	XG110A
	XU1A		XU2A	

REMREED ONLY

CIRCUIT 0, GRID 2

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
S	1	400	33	440	BL-W	S	1	427	33	467	BL-W
	2	500	34	540			2	527	34	567	
	3	402	35	442			3	431	35	471	
	4	502	36	542			4	531	36	571	
	5	404	37	444			5	433	37	473	
	6	504	38	544			6	533	38	573	
	7	406	39	446			7	435	39	475	
	8	506	40	546			8	535	40	575	
	9	410	41	450			9	437	41	477	
	10	510	42	550			10	537	42	577	
	11	412	43	452			11	401	43	441	
	12	512	44	552			12	501	44	541	
	13	414	45	454			13	403	45	443	
	14	515	46	554			14	503	46	543	
	15	416	47	456			15	405	47	445	
	16	516	48	556			16	505	48	545	
	17	420	49	460			17	407	49	447	
	18	520	50	560			18	507	50	547	
	19	422	51	462			19	411	51	451	
	20	522	52	562			20	511	52	551	
	21	424	53	464			21	413	53	453	
	22	524	54	564			22	513	54	553	
	23	426	55	466			23	415	55	455	
	24	526	56	566			24	515	56	555	
	25	430	57	470			25	417	57	457	
	26	530	58	570			26	517	58	557	
	27	432	59	472			27	421	59	461	
	28	532	60	572			28	521	60	561	
	29	434	61	474			29	423	61	463	
	30	534	62	574			30	523	62	563	
	31	436	63	476			31	425	63	465	
	32	536	64	576			32	525	64	565	

CABLE	XG9A	XG109A		XG10A	XG110A
		XU1A		XU2A	

REWIRED ONLY

CIRCUIT 0, GRID 3

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
0-W	1	600	33	640	G-W	0-W	1	627	33	667	G-W
	2	700	34	740			2	727	34	767	
	3	602	35	642			3	631	35	671	
	4	702	36	742			4	731	36	771	
	5	604	37	644			5	633	37	673	
	6	704	38	744			6	733	38	773	
	7	606	39	646			7	635	39	675	
	8	706	40	746			8	735	40	775	
	9	610	41	650			9	637	41	677	
	10	710	42	750			10	737	42	777	
	11	612	43	652			11	601	43	641	
	12	712	44	752			12	701	44	741	
	13	614	45	654			13	603	45	643	
	14	714	46	754			14	703	46	743	
	15	616	47	656			15	605	47	645	
	16	716	48	756			16	705	48	745	
	17	620	49	660			17	607	49	647	
	18	720	50	760			18	707	50	747	
	19	622	51	662			19	611	51	651	
	20	722	52	762			20	711	52	751	
	21	624	53	664			21	613	53	653	
	22	724	54	764			22	713	54	753	
	23	626	55	666			23	615	55	655	
	24	726	56	766			24	715	56	755	
	25	630	57	670			25	617	57	657	
	26	730	58	770			26	717	58	757	
	27	632	59	672			27	621	59	661	
	28	732	60	772			28	721	60	761	
	29	634	61	674			29	623	61	663	
	30	734	62	774			30	723	62	763	
	31	636	63	676			31	625	63	665	
	32	736	64	776			32	725	64	765	

CABLE XG9A XG109A XG10A XG110A
XU1A XU2A

REMREED ONLY

CIRCUIT 1, GRID 0

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
BL	1	026	33	066	0	BL	1	001	33	041	0
	2	126	34	166			2	101	34	141	
	3	030	35	070			3	003	35	043	
	4	130	36	170			4	103	36	143	
	5	032	37	072			5	005	37	045	
	6	132	38	172			6	105	38	145	
	7	034	39	074			7	007	39	047	
	8	134	40	174			8	107	40	147	
	9	036	41	076			9	011	41	051	
	10	136	42	176			10	111	42	151	
	11	000	43	040			11	013	43	053	
	12	100	44	140			12	113	44	153	
	13	002	45	042			13	015	45	055	
	14	102	46	142			14	115	46	155	
	15	004	47	044			15	017	47	057	
	16	104	48	144			16	117	48	157	
	17	006	49	046			17	021	49	061	
	18	106	50	146			18	121	50	161	
	19	010	51	050			19	023	51	063	
	20	110	52	150			20	123	52	163	
	21	012	53	052			21	025	53	065	
	22	112	54	152			22	125	54	165	
	23	014	55	054			23	027	55	067	
	24	114	56	154			24	127	56	167	
	25	016	57	056			25	031	57	071	
	26	116	58	156			26	131	58	171	
	27	020	59	060			27	033	59	073	
	28	120	60	160			28	133	60	173	
	29	022	61	062			29	035	61	075	
	30	122	62	162			30	135	62	175	
	31	024	63	064			31	037	63	077	
	32	124	64	164			32	137	64	177	

CABLE	XG11A	XG111A	XG12A	XG112A
	XU3A		XU4A	

REMREED ONLY

CIRCUIT 1, GRID 1

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
G	1	225	33	266	BR	G	1	201	33	241	BR
	2	326	34	366			2	301	34	341	
	3	230	35	270			3	203	35	243	
	4	330	36	370			4	303	36	343	
	5	232	37	272			5	205	37	245	
	6	332	38	372			6	305	38	345	
	7	234	39	274			7	207	39	247	
	8	334	40	374			8	307	40	347	
	9	236	41	276			9	211	41	251	
	10	336	42	376			10	311	42	351	
	11	200	43	240			11	213	43	253	
	12	300	44	340			12	313	44	353	
	13	202	45	242			13	215	45	255	
	14	302	46	342			14	315	46	355	
	15	204	47	244			15	217	47	257	
	16	304	48	344			16	317	48	357	
	17	206	49	246			17	221	49	261	
	18	306	50	346			18	321	50	361	
	19	210	51	250			19	223	51	263	
	20	310	52	350			20	323	52	363	
	21	310	53	252			21	225	53	265	
	22	312	54	352			22	325	54	365	
	23	312	55	254			23	227	55	267	
	24	214	56	354			24	327	56	367	
	25	314	57	256			25	231	57	271	
	26	216	58	356			26	331	58	371	
	27	316	59	260			27	233	59	273	
	28	220	60	360			28	333	60	373	
	29	222	61	262			29	235	61	275	
	30	322	62	362			30	335	62	375	
	31	224	63	264			31	237	63	277	
	32	324	64	364			32	337	64	377	

XG11A XG111A XG12A XG112A

XU3A XU4A

REMREED ONLY

CIRCUIT 1, GRID 2

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
S	1	426	33	466	BL-W	S	1	401	33	441	BL-W
	2	526	34	566			2	501	34	541	
	3	430	35	470			3	403	35	443	
	4	530	36	570			4	503	36	543	
	5	432	37	472			5	405	37	445	
	6	532	38	572			6	505	38	545	
	7	434	39	474			7	407	39	447	
	8	534	40	574			8	507	40	547	
	9	436	41	476			9	411	41	451	
	10	536	42	576			10	511	42	551	
	11	400	43	440			11	413	43	453	
	12	500	44	540			12	513	44	553	
	13	402	45	442			13	415	45	455	
	14	502	46	542			14	515	46	555	
	15	404	47	444			15	417	47	457	
	16	504	48	544			16	517	48	557	
	17	406	49	446			17	421	49	461	
	18	506	50	546			18	521	50	561	
	19	410	51	450			19	423	51	463	
	20	510	52	550			20	523	52	563	
	21	412	53	452			21	425	53	465	
	22	512	54	552			22	525	54	565	
	23	414	55	454			23	427	55	467	
	24	516	56	554			24	527	56	567	
	25	416	57	456			25	431	57	471	
	26	516	58	556			26	531	58	571	
	27	420	59	460			27	433	59	473	
	28	520	60	560			28	533	60	573	
	29	422	61	462			29	435	61	475	
	30	522	62	562			30	535	62	575	
	31	424	63	464			31	437	63	477	
	32	524	64	564			32	537	64	577	

CABLE	XG11A	XG111A	XG12A	XG112A
	XU3A		XU4A	

REMREED ONLY

CIRCUIT 1, GRID 3

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
O-W	1	626	33	666	G-W	O-W	1	601	33	641	G-W
	2	726	34	766			2	701	34	741	
	3	630	35	670			3	603	35	643	
	4	730	36	770			4	703	36	743	
	5	632	37	672			5	605	37	645	
	6	732	38	772			6	705	38	745	
	7	634	39	674			7	607	39	647	
	8	734	40	774			8	707	40	747	
	9	636	41	676			9	611	41	651	
	10	736	42	776			10	711	42	751	
	11	600	43	640			11	613	43	653	
	12	700	44	740			12	713	44	753	
	13	602	45	642			13	615	45	655	
	14	702	46	742			14	715	46	755	
	15	604	47	644			15	617	47	657	
	16	704	48	744			16	717	48	757	
	17	606	49	646			17	621	49	661	
	18	706	50	746			18	721	50	761	
	19	610	51	650			19	623	51	663	
	20	710	52	750			20	723	52	763	
	21	612	53	652			21	625	53	665	
	22	712	54	752			22	725	54	765	
	23	614	55	654			23	627	55	667	
	24	714	56	754			24	727	56	767	
	25	616	57	656			25	631	57	671	
	26	716	58	756			26	731	58	771	
	27	620	59	660			27	633	59	673	
	28	620	60	760			28	733	60	773	
	29	622	61	662			29	635	61	675	
	30	722	62	762			30	735	62	775	
	31	624	63	664			31	637	63	677	
	32	724	64	764			32	737	64	777	

CABLE XG11A XG111A XG12A XG112A
XU3A XU4A

REMREED ONLY

CIRCUIT 2, GRID 0

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
BL	1	214	33	054	0	BL	1	003	33	043	0
	2	114	34	154			2	103	34	143	
	3	016	35	056			3	005	35	045	
	4	116	36	156			4	105	36	145	
	5	020	37	060			5	007	37	047	
	6	120	38	160			6	107	38	147	
	7	022	39	062			7	011	39	051	
	8	122	40	162			8	111	40	151	
	9	024	41	064			9	013	41	053	
	10	124	42	164			10	113	42	153	
	11	026	43	066			11	015	43	055	
	12	126	44	166			12	115	44	155	
	13	030	45	070			13	017	45	057	
	14	130	46	170			14	117	46	157	
	15	032	47	072			15	021	47	061	
	16	132	48	172			16	121	48	161	
	17	034	49	074			17	023	49	063	
	18	134	50	174			18	123	50	163	
	19	036	51	076			19	025	51	065	
	20	136	52	176			20	125	52	165	
	21	000	53	040			21	027	53	067	
	22	100	54	140			22	127	54	167	
	23	002	55	042			23	031	55	071	
	24	102	56	142			24	131	56	171	
	25	004	57	044			25	033	57	073	
	26	104	58	144			26	133	58	173	
	27	006	59	046			27	035	59	075	
	28	106	60	146			28	135	60	175	
	29	010	61	050			29	037	61	077	
	30	110	62	150			30	137	62	177	
	31	012	63	052			31	001	63	041	
	32	112	64	152			32	101	64	141	

CABLE	XG13A	XG113A		XG14A	XG114A
		XU5A			XU6A

REMREED ONLY

CIRCUIT 2, GRID 1

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
G	1	214	33	254	BR	G	1	203	33	243	BR
	2	314	34	354			2	303	34	343	
	3	216	35	256			3	205	35	245	
	4	316	36	356			4	305	36	345	
	5	220	37	260			5	207	37	247	
	6	320	38	360			6	307	38	347	
	7	222	39	262			7	211	39	251	
	8	322	40	362			8	311	40	351	
	9	224	41	264			9	213	41	253	
	10	324	42	364			10	313	42	353	
	11	226	43	266			11	215	43	255	
	12	326	44	366			12	315	44	355	
	13	230	45	270			13	217	45	257	
	14	330	46	370			14	317	46	357	
	15	232	47	272			15	221	47	261	
	16	332	48	372			16	321	48	361	
	17	234	49	274			17	223	49	263	
	18	334	50	374			18	323	50	363	
	19	236	51	276			19	225	51	265	
	20	336	52	376			20	325	52	365	
	21	200	53	240			21	227	53	267	
	22	300	54	340			22	327	54	367	
	23	202	55	242			23	231	55	271	
	24	302	56	342			24	331	56	371	
	25	204	57	244			25	233	57	273	
	26	304	58	344			26	333	58	373	
	27	206	59	246			27	235	59	275	
	28	306	60	346			28	335	60	375	
	29	210	61	250			29	237	61	277	
	30	310	62	350			30	337	62	377	
	31	212	63	252			31	201	63	241	
	32	312	64	352			32	301	64	341	

CABLE XG13A XG113A XG14A XG114A

XU5A XU6A

REMREED ONLY

CIRCUIT 2, GRID 2

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
S	1	414	33	454	BL-W	S	1	403	33	443	BL-W
	2	514	34	554			2	503	34	543	
	3	416	35	456			3	405	35	445	
	4	516	36	556			4	505	36	545	
	5	420	37	460			5	407	37	447	
	6	520	38	560			6	507	38	547	
	7	422	39	462			7	411	39	451	
	8	522	40	562			8	511	40	551	
	9	424	41	464			9	413	41	453	
	10	524	42	564			10	513	42	553	
	11	426	43	466			11	415	43	455	
	12	526	44	566			12	515	44	555	
	13	430	45	470			13	417	45	457	
	14	530	46	570			14	517	46	557	
	15	432	47	472.			15	421	47	461	
	16	532	48	572			16	521	48	561	
	17	434	49	474			17	423	49	463	
	18	534	50	574			18	523	50	563	
	19	436	51	476			19	425	51	465	
	20	536	52	576			20	525	52	565	
	21	400	53	440			21	427	53	467	
	22	500	54	540			22	527	54	567	
	23	402	55	442			23	431	55	471	
	24	502	56	542			24	531	56	571	
	25	404	57	444			25	433	57	473	
	26	504	58	544			26	533	58	573	
	27	406	59	446			27	435	59	475	
	28	506	60	546			28	535	60	575	
	29	410	61	450			29	437	61	477	
	30	510	62	550			30	537	62	577	
	31	412	63	452			31	401	63	441	
	32	512	64	552			32	501	64	541	

CABLE	XG13A	XG113A	XG14A	XG114A
	XU5A		XU6A	

RREMREED ONLY

CIRCUIT 2, GRID 3

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
O-W	1	614	33	654	G-W	O-W	1	603	33	643	G-W
	2	714	34	754			2	703	34	743	
	3	616	35	656			3	605	35	645	
	4	716	36	756			4	705	36	745	
	5	620	37	660			5	607	37	647	
	6	720	38	760			6	707	38	747	
	7	622	39	662			7	611	39	651	
	8	722	40	762			8	711	40	751	
	9	624	41	664			9	613	41	653	
	10	724	42	764			10	713	42	753	
	11	626	43	666			11	615	43	655	
	12	726	44	766			12	715	44	755	
	13	630	45	670			13	617	45	657	
	14	730	46	770			14	717	46	757	
	15	632	47	672			15	621	47	661	
	16	732	48	772			16	721	48	761	
	17	634	49	674			17	623	49	663	
	18	734	50	774			18	723	50	763	
	19	636	51	676			19	625	51	665	
	20	736	52	776			20	725	52	765	
	21	600	53	640			21	627	53	667	
	22	700	54	740			22	727	54	767	
	23	602	55	642			23	631	55	671	
	24	702	56	742			24	731	56	771	
	25	604	57	644			25	633	57	673	
	26	704	58	744			26	733	58	773	
	27	606	59	646			27	635	59	675	
	28	706	60	746			28	735	60	775	
	29	610	61	650			29	637	61	677	
	30	710	62	750			30	737	62	777	
	31	612	63	652			31	601	63	641	
	32	712	64	752			32	701	64	741	

CABLE XG13A XG113A XG14A XG114A
XU5A XU6A

REMREED ONLY

CIRCUIT 3, GRID 0

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
BL	1	002	33	042	0	BL	1	015	33	055	0
	2	102	34	142			2	115	34	155	
	3	004	35	044			3	017	35	057	
	4	104	36	144			4	117	36	157	
	5	006	37	046			5	021	37	061	
	6	106	38	146			6	121	38	161	
	7	010	39	050			7	023	39	063	
	8	110	40	150			8	123	40	163	
	9	012	41	052			9	025	41	065	
	10	112	42	152			10	125	42	165	
	11	014	43	054			11	027	43	067	
	12	114	44	154			12	127	44	167	
	13	016	45	056			13	031	45	071	
	14	116	46	156			14	131	46	171	
	15	020	47	060			15	033	47	073	
	16	120	48	160			16	133	48	173	
	17	022	49	062			17	035	49	075	
	18	122	50	162			18	135	50	175	
	19	024	51	064			19	037	51	077	
	20	124	52	164			20	137	52	177	
	21	026	53	066			21	001	53	041	
	22	126	54	166			22	101	54	141	
	23	030	55	070			23	003	55	043	
	24	130	56	170			24	103	56	143	
	25	032	57	072			25	005	57	045	
	26	132	58	172			26	105	58	145	
	27	034	59	074			27	007	59	047	
	28	134	60	174			28	107	60	147	
	29	036	61	076			29	011	61	051	
	30	136	62	176			30	111	62	151	
	31	000	63	040			31	013	63	053	
	32	100	64	140			32	113	64	153	

CABLE XG15A XG115A XG16A XG116A
XU7A XU8A

REMREED ONLY

CIRCUIT 3, GRID 1

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
G	1	202	33	242	BR	G	1	215	33	255	BR
	2	302	34	342			2	315	34	355	
	3	204	35	244			3	217	35	257	
	4	304	36	344			4	317	36	357	
	5	206	37	246			5	221	37	261	
	6	306	38	346			6	321	38	361	
	7	210	39	250			7	223	39	263	
	8	310	40	350			8	323	40	363	
	9	212	41	252			9	225	41	265	
	10	312	42	352			10	325	42	365	
	11	214	43	254			11	227	43	267	
	12	314	44	354			12	327	44	367	
	13	216	45	256			13	231	45	271	
	14	316	46	356			14	331	46	371	
	15	220	47	260			15	233	47	273	
	16	320	48	360			16	333	48	373	
	17	222	49	262			17	235	49	275	
	18	322	50	362			18	335	50	375	
	19	224	51	264			19	237	51	277	
	20	324	52	364			20	337	52	377	
	21	226	53	266			21	201	53	241	
	22	326	54	366			22	301	54	341	
	23	230	55	270			23	203	55	243	
	24	330	56	370			24	303	56	343	
	25	232	57	272			25	205	57	245	
	26	332	58	372			26	305	58	345	
	27	234	59	274			27	207	59	247	
	28	334	60	374			28	307	60	347	
	29	236	61	276			29	211	61	251	
	30	336	62	376			30	311	62	351	
	31	200	63	240			31	213	63	253	
	32	300	64	340			32	313	64	353	

CABLE XG15A XG115A XG16A XG116A
XU7A XU8A

SHEET 14 of 16

REMREED ONLY

CIRCUIT 3, GRID 2

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
S	1	402	33	442	BL-W	S	1	415	33	455	BL-W
	2	502	34	542			2	515	34	555	
	3	404	35	444			3	417	35	457	
	4	504	36	544			4	517	36	557	
	5	406	37	446			5	421	37	461	
	6	506	38	546			6	521	38	561	
	7	410	39	450			7	423	39	463	
	8	510	40	550			8	523	40	563	
	9	412	41	452			9	425	41	465	
	10	512	42	552			10	525	42	565	
	11	414	43	454			11	427	43	467	
	12	514	44	554			12	527	44	567	
	13	416	45	456			13	431	45	471	
	14	516	46	556			14	531	46	571	
	15	420	47	460			15	433	47	473	
	16	520	48	560			16	533	48	573	
	17	422	49	462			17	435	49	475	
	18	522	50	562			18	535	50	575	
	19	424	51	464			19	437	51	477	
	20	524	52	564			20	537	52	577	
	21	426	53	466			21	401	53	441	
	22	526	54	566			22	501	54	541	
	23	430	55	470			23	403	55	443	
	24	530	56	570			24	503	56	543	
	25	432	57	472			25	405	57	445	
	26	532	58	572			26	505	58	545	
	27	434	59	474			27	407	59	447	
	28	534	60	574			28	507	60	547	
	29	436	61	476			29	411	61	451	
	30	536	62	576			30	511	62	551	
	31	400	63	440			31	413	63	453	
	32	500	64	540			32	513	64	553	

CABLE	XG15A	XG115A		XG16A	XG116A
	XU7A			XU8A	

REMREED ONLY

CIRCUIT 3, GRID 3

BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR	BDR	711 PCHG	DISPLAY	711 PCHG	DISPLAY	BDR
O-W	1	602	33	642	G-W	O-W	1	615	33	655	G-W
	2	702	34	742			2	715	34	755	
	3	604	35	644			3	617	35	657	
	4	704	36	744			4	717	36	757	
	5	606	37	646			5	621	37	661	
	6	706	38	746			6	721	38	761	
	7	610	39	650			7	623	39	663	
	8	710	40	750			8	723	40	763	
	9	612	41	652			9	625	41	665	
	10	712	42	752			10	725	42	765	
	11	614	43	654			11	627	43	667	
	12	714	44	754			12	727	44	767	
	13	616	45	656			13	631	45	671	
	14	716	46	756			14	731	46	771	
	15	620	47	660			15	633	47	673	
	16	720	48	760			16	733	48	773	
	17	622	49	662			17	635	49	675	
	18	722	50	762			18	735	50	775	
	19	624	51	664			19	637	51	677	
	20	724	52	764			20	737	52	777	
	21	626	53	666			21	601	53	641	
	22	726	54	766			22	701	54	741	
	23	630	55	670			23	603	55	643	
	24	730	56	770			24	703	56	743	
	25	632	57	672			25	605	57	645	
	26	732	58	772			26	705	58	745	
	27	634	59	674			27	607	59	647	
	28	734	60	774			28	707	60	747	
	29	636	61	676			29	611	61	651	
	30	736	62	776			30	711	62	751	
	31	600	63	640			31	613	63	653	
	32	700	64	740			32	713	64	753	

CABLE XG15A XG115A XG16A XG116A
XU7A XU8A

FIG. 9 READOUT DISPLAY (T & R) ASSOCIATED WITH LJSF OR TJSF (REMREED) ON 711 CONNECTORS

SHELF	0	2	4	6	ON JGF (EVEN OR ODD)
BINDER	G-W	BL-W	BR	0	

EVEN JF

T, R LEADS		T1, R1 LEADS	
711 PCHG	DISPLAY	711 PCHG	DISPLAY
1	014	1	034
2	114	2	134
3	010	3	030
4	110	4	130
5	011	5	031
6	111	6	131
7	012	7	032
8	112	8	132
9	013	9	033
10	113	10	133
11	001	11	021
12	101	12	121
13	015	13	035
14	115	14	135
15	016	15	036
16	116	16	136
17	017	17	037
18	117	18	137
19	000	19	020
20	100	20	120
21	007	21	027
22	107	22	127
23	002	23	022
24	102	24	122
25	003	25	023
26	103	26	123
27	004	27	024
28	104	28	124
29	005	29	025
30	105	30	125
31	006	31	026
32	106	32	126

ODD JF

T, R LEADS		T1, R1 LEADSS	
711 PCHG	DISPLAY	711 PCHG	DISPLAY
1	054	1	074
2	154	2	174
3	050	3	070
4	150	4	170
5	051	5	071
6	151	6	171
7	052	7	072
8	152	8	172
9	053	9	073
10	153	10	173
11	041	11	061
12	141	12	161
13	055	13	075
14	155	14	175
15	056	15	076
16	156	16	176
17	057	17	077
18	157	18	177
19	040	19	060
20	140	20	160
21	047	21	067
22	147	22	167
23	042	23	062
24	142	24	162
25	043	25	o63
26	143	26	163
27	044	27	064
25	144	28	164
29	045	29	065
30	145	30	165
31	046	31	066
32	146	32	166

FIG. 10 READOUT DISPLAY (T, R & T1, R1) ASSOCIATED WITH JUNCTOR GROUPING FRAME ON 711 CONNECTORS

SHEET 1 of 2

SHELF	1	3	5	7	ON JGF (EVEN OR ODD)
BINDER	O-W	S	G	BL	

EVEN JF

T, R LEADS		T1, R1 LEADS	
711 PCHG	DISPLAY	711 PCHG	DISPLAY
1	010	1	030
2	110	2	130
3	011	3	031
4	111	4	131
5	012	5	032
6	112	6	132
7	013	7	033
8	113	8	133
9	014	9	034
10	114	10	134
11	015	11	035
12	115	12	135
13	016	13	036
14	116	14	136
15	017	15	037
16	117	16	137
17	000	17	020
18	100	18	120
19	001	19	021
20	101	20	121
21	002	21	022
22	102	22	122
23	003	23	023
24	103	24	123
25	004	25	024
26	104	26	124
27	005	27	025
28	105	28	125
29	006	29	026
30	106	30	126
31	007	31	027
32	107	32	127

ODD JF

T, R LEADS		T1, R1 LEADS	
711 PCHG	DISPLAY	711 PCHG	DISPLAY
1	050	1	070
2	150	2	170
3	051	3	071
4	151	4	171
5	052	5	072
6	152	6	172
7	053	7	073
8	153	8	173
9	054	9	074
10	154	10	174
11	055	11	075
12	155	12	175
13	056	13	076
14	156	14	176
15	057	15	077
16	157	16	177
17	040	17	060
18	140	18	160
19	041	19	061
20	141	20	161
21	042	21	062
22	142	22	162
23	043	23	063
24	143	24	163
25	044	25	064
26	144	26	164
27	045	27	065
28	145	28	165
29	046	29	066
30	146	30	166
31	047	31	067
32	147	32	167

FIG. 11 READOUT DISPLAY (T, R & T1, R1) ASSOCIATED WITH JUNCTOR GROUPING FRAME ON 711 CONNECTORS

SHEET 2 of 2

JGF EVEN

SHELF X

TERM #	BAY	CONN. 4 - EVEN JF MTG. PLT.	CKT #	T	R	BAY	CONN. 6 - ODD JF MTG. PLT.	CKT #	T	R
33	0	B	31	017	117	0	B	31	057	157
32			30	016	116			30	056	156
31			21	015	115			21	055	155
30			20	014	114			20	054	154
23			11	013	113			11	053	153
22			10	012	112			10	052	152
21			01	011	111			01	051	151
20		B	00	010	110		B	00	050	150
13		A	31	007	107		A	31	047	147
12			30	006	106			30	046	146
11			21	005	105			21	045	145
10			20	004	104			20	044	144
03			11	003	103			11	043	143
02			10	002	102			10	042	142
01			01	001	101			01	041	141
00	0	A	00	000	100	0	A	00	040	140

TERM #	BAY	T.S. 0 - EVEN JF MTG. PLT.	CKT #	T1	R1	BAY	T.S. 2 - ODD JF MTG. PLT.	CKT #	T1	R1
33	0	B	31	037	137	0	B	31	077	177
32			30	036	136			30	076	176
31			21	035	135			21	075	175
30			20	034	134			20	074	174
23			11	033	133			11	073	173
22			10	032	132			10	072	172
21			01	031	131			01	071	171
20		B	00	030	130		B	00	070	170
13		A	31	027	127		A	31	067	167
12			30	026	126			30	066	166
11			21	025	125			21	065	165
10			20	024	124			20	064	164
03			11	023	123			11	063	163
02			10	022	122			10	062	162
01			01	021	121			01	061	161
00	0	A	00	020	120	0	A	00	060	160

JFG SHELF X MTG. PLT.	0	1	2	3	4	5	6	7
A	1	3	5	7	9	11	13	15
B	2	4	6	8	10	12	14	16

FIG. 11 READOUT DISPLAY (T, R & T1, R1)
ASSOCIATED WITH JUNCTOR GROUPING
FRAME EVEN ON JUNCTOR FRAME

JGF EVEN — JUNCTOR FRAME EVEN BAY 0

SHELF X	R	110	111	112	113	114	115	116	117	B
CONN. 4	T	010	011	012	013	014	015	016	017	MOUNTING PLATES
	R	100	101	102	103	104	105	106	107	A
	T	000	001	002	003	004	005	006	007	
	R1	130	131	132	133	134	135	136	137	B
T.S. 0	T1	030	031	032	033	034	035	036	037	MOUNTING PLATES
	R1	120	121	122	123	124	125	126	127	A
	T1	020	021	022	023	024	025	026	027	
		0	1	0	1	0	1	0	1	
		0		1		2		3		
CKT #		00	01	10	11	20	21	30	31	

JGF EVEN — JUNCTOR FRAME ODD BAY 0

SHELF X	R	150	151	152	153	154	155	156	157	B
CONN. 6	T	050	051	052	053	054	055	056	057	MOUNTING PLATES
	R	140	141	142	143	144	145	146	147	A
	T	040	041	042	043	044	045	046	047	
	R1	170	171	172	173	174	175	176	177	B
T.S. 2	T1	070	071	072	073	074	075	076	077	MOUNTING PLATES
	R1	160	161	162	163	164	165	166	167	A
	T1	060	061	062	063	064	065	066	067	
		0	1	0	1	0	1	0	1	
		0		1		2		3		
CKT #		00	01	10	11	20	21	30	31	

JGF SHELF X MTG. PLT.	0	1	2	3	4	5	6	7
A	1	3	5	7	9	11	13	15
B	2	4	6	8	10	12	14	16

FIG. 12 READOUT DISPLAY (T, R & T1, R1) ASSOCIATED WITH JUNCTOR GROUPING FRAME EVEN ON JUNCTOR FRAME

JGF ODD

SHELF X

TERM #	CONN. 5 - EVEN JF MTG. BAY	PLT.	CKT #	T	R	CONN. 7 - ODD JF MTG. BAY	PLT.	CKT #	T	R
33	2	B	31	017	117	2	B	31	057	157
32			30	016	116			30	056	156
31			21	015	115			21	055	155
30			20	014	114			20	054	154
23			11	013	113			11	053	153
22			10	012	112			10	052	152
21			01	011	111			01	051	151
20		B	00	010	110		B	00	050	150
13		A	31	007	107		A	31	047	147
12			30	006	106			30	046	146
11			21	005	105			21	045	145
10			20	004	104			20	044	144
03			11	003	103			11	043	143
02			10	002	102			10	042	142
01			01	001	101			01	041	141
00	2	A	00	000	100	2	A	00	040	140

TERM #	T.S. 1 - EVEN JF MTG. BAY	PLT.	CKT #	T1	R1	T.S. 3 - ODD JF MTG. BAY	PLT.	CKT #	T1	R1
33	2	B	31	037	137	2	B	31	077	177
32			30	036	136			30	076	176
31			21	035	135			21	075	175
30			20	034	134			20	074	174
23			11	033	133			11	073	173
22			10	032	132			10	072	172
21			01	031	131			01	071	171
20		B	00	030	130		B	00	070	170
13		A	31	027	127		A	31	067	167
12			30	026	126			30	066	166
11			21	025	125			21	065	165
10			20	024	124			20	064	164
03			11	023	123			11	063	163
02			10	022	122			10	062	162
01			01	021	121			01	061	161
00	2	A	00	020	120	2	A	00	060	160

JGF SHELF X MTG. PLT.	0	1	2	3	4	5	6	7
A	1	3	5	7	9	11	13	15
B	2	4	6	8	10	12	14	16

FIG. 13 READOUT DISPLAY (T, R & T1, R1) ASSOCIATED WITH JUNCTOR FRAME ON JUNCTOR GROUPING FRAME ODD

JGF ODD — JUNCTOR FRAME EVEN BAY 2

SHELF X										
	R	110	111	112	113	114	115	116	117	B
	T	010	011	012	013	014	015	016	017	
CONN. 5										MOUNTING PLATES
	R	100	101	102	103	104	105	106	107	
	T	000	001	002	003	004	005	006	007	A
	R1	130	131	132	133	134	135	136	137	B
	T1	030	031	032	033	034	035	036	037	
T.S. 1										MOUNTING PLATES
	R1	120	121	122	123	124	125	126	127	
	T1	020	021	022	023	024	025	026	027	A
		0	1	0	1	0	1	0	1	
		0		1		2		3		
CKT #		00	01	10	11	20	21	30	31	

JGF ODD — JUNCTOR FRAME ODD BAY 2

SHELF X										
	R	150	151	152	153	154	155	156	157	B
	T	050	051	052	053	054	055	056	057	
CONN. 7										MOUNTING PLATES
	R	140	141	142	143	144	145	146	147	
	T	040	041	042	043	044	045	046	047	A
	R1	170	171	172	173	174	175	176	177	B
	T1	070	071	072	073	074	075	076	077	
T.S. 3										MOUNTING PLATES
	R1	160	161	162	163	164	165	166	167	
	T1	060	061	062	063	064	065	066	067	A
		0	1	0	1	0	1	0	1	
		0		1		2		3		
CKT #		00	01	10	11	20	21	30	31	

JGF SHELF X MTG. PLT	0	1	2	3	4	5	6	7
A	1	3	5	7	9	11	13	15
B	2	4	6	8	10	12	14	16

FIG. 14 READOUT DISPLAY (T, R & T1, R1) ASSOCIATED WITH WITH JUNCTOR GROUPING FRAME ODD ON JUNCTOR FRAME

Engineering Planning Manager
(Installation)