

| TABLE A - FEATURES | | | | | | | |
|--------------------|--|--------|------|-------------------------------|-----------|--------------|--------|
| LINE | DESCRIPTION | RATING | LIST | CIRCUITS AND FIGURES EQUIPPED | | | |
| | | | | QTY | CIRCUIT | FIGURE | WIRING |
| 1 | 42-INCH HIGH FRAME SUITABLE FOR MOUNTING ON TOP OF A BATTERY STAND SUCH AS LIST 9, 10 OR 11. (SEE NOTES 95,96, 158) | DA | 1 | 1 | T82670-31 | H6 | |
| 3 | WIRING AND EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 15 TO PROVIDE ONE J85501D-1 ECS CONTROLLER. (SEE NOTE 53,96, 158) | DA | 2 | 1 | T82670-31 | 4,H5 | R |
| 4 | WIRING AND EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 15 TO PROVIDE ONE 42-POSITION DISTRIBUTION PANEL FOR MOUNTING 3-60 AMPERE CIRCUIT BREAKERS AND/OR 5-30 AMPERE FUSES. (SEE NOTES 56,57,65,67,77,82,96, 158) REPLACED BY LIST 23. | DA | 3 | 1 | T82670-31 | 1,A,H1,H2 | |
| 5 | SAME AS LIST 3 EXCEPT WITH LOW VOLTAGE DISCONNECT/RECONNECT FEATURE. (SEE NOTES 52,54,82, 158) REPLACED BY LIST 24. | DA | 4 | 1 | T82670-31 | 1,B,H1,H2 | T |
| 6 | SAME AS LIST 3 EXCEPT WITH BATTERY MANAGEMENT SYSTEM (ONLY FOR VR BATTERIES). (NO UL OR CUL LISTING MARK APPLIED, (SEE NOTES 17, 38, 65, 83, 84, 85, 86,96, 158) | DA | 5 | 1 | T82670-31 | 1,H1,H12 | S |
| 7 | SAME AS LIST 3 EXCEPT WITH LOW VOLTAGE DISCONNECT/RECONNECT FEATURE AND THE BATTERY MANAGEMENT SYSTEM (ONLY FOR VR BATTERIES). (NO UL OR CUL LISTING MARK APPLIED, (SEE NOTES 17, 38, 52, 54, 65, 83, 84, 85, 86, 96, 158) | DA | 6 | 1 | T82670-31 | 1,B,H1,H12 | S,T |
| 8 | WIRING AND EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 15 TO PROVIDE ONE RECTIFIER SHELF ASSEMBLY MOUNTED IN THE UPPER POSITION. (SEE NOTES 76,81,95,96, 158) | DA | 7 | 1 | T82670-31 | 3A,3B,H4 | |
| 9 | WIRING AND EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 15 AND 7 TO PROVIDE A SECOND RECTIFIER SHELF ASSEMBLY MOUNTED IN THE LOWER POSITION. (SEE NOTES 76,81,95,96, 158) | DA | 8 | 1 | T82670-31 | 3A,3B,H4 | |
| 11 | EQUIPMENT IN ADDITION TO LIST 1 TO PROVIDE A 44.6-INCH HIGH 4-SHELF BATTERY STAND FOR FOUR STRINGS OF 12IR125 BATTERIES. (SEE NOTES 95,96, 158) | DA | 9 | 1 | | | |
| 12 | EQUIPMENT IN ADDITION TO LIST 1 TO PROVIDE A 42-INCH HIGH 4-SHELF BATTERY STAND FOR ONE STRING OF 2VR375E BATTERIES. QUALIFIED FOR SEISMIC ZONE 4 APPLICATIONS. (SEE NOTES 95,96, 158) | DA | 10 | 1 | | | |
| 13 | EQUIPMENT IN ADDITION TO LIST 1 TO PROVIDE A 42-INCH 4-SHELF BATTERY STAND FOR ONE STRING OF 2VR250E OR TWO STRINGS OF 4VR125EL BATTERIES. QUALIFIED FOR SEISMIC ZONE 4 APPLICATIONS. (SEE NOTES 95,96, 158) | DA | 11 | 1 | | | |
| 15 | WIRING AND EQUIPMENT REQUIRED IN ADDITION TO LIST 1 TO PROVIDE AC PREWIRE FOR ALL RECTIFIER SHELVES. (SEE NOTES 34,35,81, 158) | DA | 12 | 1 | T82670-31 | 2,2B,H4A | D |
| 17 | FRAMEWORK TRANSITION ASSEMBLY FOR INTERFACING WITH CABLE RACK. (SEE NOTE 97, 158) | DA | 14 | 1 | | | |
| 18 | FRAMEWORK (7FT NETWORK BAY, 22.312" MOUNTING CENTERS). (SEE NOTE 95,96, 158) | DA | 15 | 1 | | | |
| 20 | WIRING AND EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 15 TO PROVIDE ONE 42-POSITION DISTRIBUTION PANEL FOR MOUNTING 3-100 AMPERE PLUG-IN CIRCUIT BREAKERS OR 5-30 AMPERE FUSES. (SEE NOTES 58,77,78, 158) | DA | 23 | 1 | T82670-31 | 5,6,A,H2,H13 | |
| 21 | SAME AS LIST 23 EXCEPT INCLUDES LOW VOLTAGE DISCONNECT/RECONNECT FEATURE. (SEE NOTES 58,77,78, 158) | DA | 24 | 1 | T82670-31 | 5,6,B,H2,H13 | |

| LINE | CIRCUIT NAME | SCHEMATIC | WRG DIAGRAM | FIGURE | OPT WIRING | WIRED | REMARKS |
|------|--------------|------------|-------------|-----------|------------|-------|---------|
| 3 | IR BATTERIES | SD83280-01 | | T83280-30 | | | |
| 2 | VR BATTERIES | SD83119-01 | | T83119-30 | | | |
| 1 | POWER PLANT | SD82670-02 | | T82670-31 | | | |

| TABLE C - WIRING PROVIDED INFORMATION | | | | | | | |
|---------------------------------------|----------------------------|--------------|------|-------------------|------------|------|--------|
| LINE | NAME | NUMBER | LINE | NAME | NUMBER | LINE | NUMBER |
| 6 | KS-23619 VR SERIES BATTERY | =T83119-30 | | | | | |
| 5 | RECTIFIER SHELF ASSEMBLY | =J85702B-2 | | | | | |
| 4 | CONTROLLER | J85501D-1 | 10 | IR SERIES BATTERY | =J85504D-1 | | |
| 3 | DISTRIBUTION ASSEMBLY | =ED-83138-30 | 9 | VR SERIES BATTERY | =J85504C-1 | | |
| 2 | DISTRIBUTION ASSEMBLY | =ED-83241-30 | 8 | ECS BATTERY PLANT | T82670-31 | | |
| 1 | FRAME ASSEMBLY | =847598265 | 7 | IR SERIES BATTERY | =T83280-30 | | |

| TABLE D - LIST OF ASSOCIATED DRAWINGS | | | | | | | |
|---------------------------------------|------|--------|------|------|--------|------|--------|
| LINE | NAME | NUMBER | LINE | NAME | NUMBER | LINE | NUMBER |
| DA | | | DB | | | | |

| TABLE A - FEATURES (CONT.) | | | | | | | |
|----------------------------|---|--------|------|-------------------------------|-----------|----------------------|--------|
| LINE | DESCRIPTION | RATING | LIST | CIRCUITS AND FIGURES EQUIPPED | | | |
| | | | | QTY | CIRCUIT | FIGURE | WIRING |
| 22 | SAME AS LIST 23 EXCEPT INCLUDES THERMAL (SLOPE/STEP) COMPENSATION FEATURE. (SEE NOTE 158) | DA | 25 | 1 | T82670-31 | 5,7,A,H2,H13,H14,H15 | |
| 23 | SAME AS LIST 24 EXCEPT INCLUDES THERMAL (SLOPE/STEP) COMPENSATION FEATURE. (SEE NOTE 158) | DA | 26 | 1 | T82670-31 | 5,7,B,H2,H13,H14,H15 | |
| 24 | SAME AS LIST 23 EXCEPT INCLUDES LOW VOLTAGE LOAD DISCONNECT/RECONNECT FEATURE. (SEE NOTES 8,37,52,58,95,157, 158) | DA | 27 | 1 | T82670-31 | 5A,B,3A,10,H13 | |
| 26 | OPTIONAL LABELS REQUIRED IN ADDITION TO LIST 2,5,6,23-27 TO PROVIDE THE "LUCENT TECHNOLOGIES" CORPORATE LOGO. (SEE NOTES 38,156, 158) | DA | A | 1 | | | |

MANUFACTURING NOTES

1. () - DESIGNATIONS TO BE STAMPED IN ACCORDANCE WITH JOB INFORMATION.

2. [] - INDICATES DESIGNATIONS SHOWN FOR INFORMATION ONLY AND ARE NOT TO BE STAMPED.

3. < > - INDICATES INFORMATION PROVIDED IN ACCORDANCE WITH OTHER INFORMATION.

4. - PARTS THAT ARE TO BE SHIPPED ATTACHED TO OR ENCLOSED IN THE SAME CONTAINER AS THE ASSOCIATED ASSEMBLED ITEM. {SS}{/} - 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.

5. S - ITEMS NOT ASSEMBLED WITH AND SHIPPED SEPARATELY FROM THE EQUIPMENT.

6. DLT-DRAW LINE THROUGH, INDICATES THAT THE PART OR ASSEMBLY HAS BEEN DELETED(LINED OUT) SEE TABLE DLT FOR REMOVED MATERIAL.

7. SWITCHES AND JUMPERS ON J85501D-1 CONTROLLER SHALL BE SET AS PART OF FACTORY TEST. SETTINGS ARE GIVEN IN TABLE AD. DIP SWITCH AND JUMPER LOCATIONS ARE SHOWN IN FIGURE L ON SHEET F5.

8. THE BAD1 OR BDW1 CIRCUIT PACK (CP5) SHALL BE CONFIGURED FOR A -42.5 VOLT LOW VOLTAGE DISCONNECT AS PART OF THE FACTORY TEST. SETTINGS ARE GIVEN IN TABLE S. JUMPER LOCATIONS ARE SHOWN IN FIGURE J ON SHEET F5. THE BID1 CIRCUIT PACK IS IS FACTORY CONFIGURED AS SHOWN IN TABLE ZL. SEE FIGURE M ON SHEET F5 FOR SWITCH LOCATION. THE BAD10 CIRCUIT PACK HAS BEEN DESIGNED FOR A 42.0 VOLT LOW VOLTAGE DISCONNECT AND REQUIRES NO JUMPERS.

9. TIGHTENING TORQUES ARE GIVEN IN TABLE V.

10. UNASSIGNED.

11. DRESS RIBBON CABLE ASSEMBLY 846317717 (ITEM 27) WITH SUFFICIENT SLACK ACROSS HINGE TO PERMIT FULL OPENING OF DISTRIBUTION ASSEMBLY DOOR.

12. UNASSIGNED.

13. WHEN KS20921 "HYPALON INSULATED" OR KS24194 "NON HALOGEN" WIRE IS SECURED WITH A CABLE TIE OR CORD, VULCANIZED FIBER SHOULD BE WRAPPED AROUND THE CABLE, SEPARATING THE CABLE INSULATION FROM THE TIE, AND THE CABLE SUPPORT. THIS REQUIREMENT IS DEFINED IN "TELECOMMUNICATION EQUIPMENT GUIDELINES", PUBLICATION 77350 THE VULCANIZED FIBER IS AVAILABLE IN 1.5 INCH WIDE ROLLS (901204149) OR 3.00 INCH WIDE ROLLS (803401165).

14. GROUP 15 FRAMEWORK IS EQUIPPED WITH MISCELLANEOUS HARDWARE PACKAGED IN A SEPARATE CARTON. PACKAGE THIS CARTON IN THE SHIPPING CONTAINER WITH THE COMPLETED FRAME.

| SHEET INDEX | | | | | | |
|-------------|-----|----|----|----|-----|-----|
| ISSUE | 18 | 18 | 18 | 18 | 18 | 18 |
| SH NO | A1 | A2 | A3 | A4 | A5 | A6 |
| ISSUE | 18 | 18 | 11 | 8 | 8 | 10 |
| SH NO | A7 | A8 | B1 | B2 | B3 | B4 |
| ISSUE | 8 | 8 | 14 | 14 | 8 | 17 |
| SH NO | C1 | C2 | C3 | C4 | C5 | D1 |
| ISSUE | 17 | 8 | 8 | 8 | 8 | 8 |
| SH NO | D2 | F1 | F2 | F3 | F4 | F5 |
| ISSUE | 8 | 8 | 8 | 8 | 8 | 8 |
| SH NO | F6 | F7 | F8 | F9 | F10 | F11 |
| ISSUE | 8 | 8 | | | | |
| SH NO | F12 | G1 | | | | |

| POWER SYSTEMS SPECIFICATION FOR LINEAGE 2000 ECS BATTERY PLANT | | | |
|--|-------|-------------------|--|
| -48 VOLT, 208/240 VAC 50/60 HZ INPUT" | | | |
| 300 AMPERES MAXIMUM OUTPUT | | | |
| TYCO ELECTRONICS | | J85500D-3 | |
| MATRIX EBOM VERSION | | Plant J85500D3 17 | |
| SHEET | ISSUE | DWG | |
| A1 OF | 18 | SIZE | |
| TYCO ELECTRONICS | | J85500D-3 | |
| 32 | 18 | C2 | |

ORIGINAL ISSUE 11-22-94
ISSUE 1
PDI: 94ESDJ1172

JM GAS HHB 11-22-94 1

ADDED PDI # TO ISS COLUMN
ADDED TBL DLT UPDATED SHTS
B3, C1, C3, C4 ON SHT C1:
ITEM 39 WAS ITEM 40 ON SHT
C4: ITEM 40 WAS ITEM 41 ITEM
41 WAS ITEM 42 ITEM 46 WAS
ITEM 52 ITEM 47 WAS ITEM 53
ITEM 77 WAS ITEM 78 ITEM 78
WAS ITEM 79 DLT ITEM 80 ITEM
99 WAS ITEM 100 ITEM 100 WAS
ITEM 101 ITEM 101 WAS ITEM
102 ITEM 102 WAS ITEM 103
ITEM 103 WAS ITEM 104 ITEM
104 WAS ITEM 105 ITEM 105 WAS
ITEM 106 ON SHT B3: ITEM 117
WAS ITEM 104 ITEM 134 WAS
ITEM 121 ITEM 141 (801829573)
WAS ITEM 128 (801829513) ON
SHT C3, ADDED ITEM 48 TO
LABEL IN SECT. R-R ON SHT D1:
ITEM 6 WAS C/C 601336902 ITEM
78 QTY WAS 1 DLT ITEM 79 ITEM
102 WAS C/C 403002041 ITEM
156,157 ARE ASTERISK
PDI: 95ESDJ0006 CL:ME

GAS HHB 1-10-95 1.1

INCORPORATED POINT ISS 1.1
SH: A1 LIST 14 RATED DA. ADD
NT 36. SH: A2 UPDATED NTS
87,91,95,96. ADDED NT 97. SH:
A3 UPDATED TELS B,DLT. SH:
B1,B3 UPDATED. SH: D1 ADD
ITM 3. ITM 48 WAS LIST 1 ITM
62 WAS LIST 1, QTY 1. CHGD
ITM 91 TO STRIKE. ITM 112 WAS
QTY 4. CHGD ITM 121 TO
ASTERISK. SH: F1 ADDED MTG
HWARE SH: F3 UPDATED PDT
ISSUE 2.4
PDI: 95ESDJ0291 CL:ME

GAS HHB 4-12-95 2

SH A1: UPDATED NTS 4,32.
CHGD LIST 12 DESCR
INCORPORATED TEMPORARY
PDI 95ESDJ0475
SH A2: UPDATED NT 94. SH A3:
UPDATED TBL B, ITMS G3,G4.
UPDATED TBL DLT, TBL R. SH
B3: UPDATED SH B4: UPDATED SH
D1: DLT ITM 3,6,34,137 ITM 65
WAS LIST 8 ADDED ITMS 7, 159,
160, 161 ADDED LISTS 10, 11
TO ITM 112. PDT D3ISSUE2.1
ISSUE 2.1
PDI: 95ESDJ0561 CL:ME

GAS HHB 07-10-95 2.1

USED ON DRAWING
SCALE: C2
DISTN CODE: AM10

MATRIX EBOM VERSION
Plant J85500D3 17

SHEET A1 OF 32
ISSUE 18
DWG SIZE C2

Sheet generated on: Fri Apr 6 9:04:25 USCentral 2001

MANUFACTURING NOTES (CONT'D)

15. DRILL TEMPLATES ARE TO BE ATTACHED TO FRAMEWORK FOR SHIPPING. ATTACHMENT TO FRAMEWORK UPRIGHT IS RECOMMENDED.

16. CIRCUIT BREAKERS AND FUSES FOR LIST 23-27 DISTRIBUTION PANELS ARE ORDERED PER TABLE K AND ARE FIELD INSTALLED AT POSITIONS SPECIFIED PER JOB ORDER. CIRCUIT BREAKER AND CABLING POSITIONS ARE GIVEN IN FIGURES A AND B ON SHEET F3. CIRCUIT BREAKERS AND FUSES DO NOT INCLUDE TERMINATING LUGS OR HARDWARE. THESE MUST BE ORDERED PER TABLE L.

17. CIRCUIT BREAKERS AND FUSES FOR LIST 3-6 DISTRIBUTION PANELS ARE ORDERED PER TABLE J AND ARE FIELD INSTALLED AT POSITIONS SPECIFIED PER JOB ORDER. CIRCUIT BREAKER AND CABLING POSITIONS ARE GIVEN IN FIGURES N AND T ON SHEET F7. 3-30 AMPERE CIRCUIT BREAKER KITS INCLUDE THE LOAD LUGS, DISCHARGE RETURN LUGS AND MOUNTING HARDWARE FOR TERMINATION OF 10-12 AWG WIRE. 45-60 AMPERE CIRCUIT BREAKER KITS INCLUDE A TERMINAL ADAPTER AND MOUNTING HARDWARE, BUT LOAD LUGS AND DISCHARGE RETURN LUGS MUST BE ORDERED PER TABLE W. FUSES DO NOT INCLUDE ANY TERMINATING LUGS OR HARDWARE. THESE MUST BE ORDERED PER TABLE W.

18. FIELD MOUNTED EQUIPMENT SHOWN ON SHEETS F1-F12.

19. ITEMS INCLUDED WITH THIS HARDWARE KIT ARE LISTED AT THE END OF THE STOCKLIST FOR REFERENCE ONLY. HARDWARE KIT REFERENCE PREP "N" IS ASSOCIATED WITH STOCKLIST ITEMS REFERENCED PREP "N". ADDITIONAL PREPACK ITEMS BROUGHT IN BY THE UNITS ASSOCIATED WITH THIS FRAME AND THAT ARE ALREADY CALLED FOR IN PREP "N", MAY BE OMITTED AND NOT SHIPPED WITH THE FRAME.

20. INSTALLATION FIGURES FOR VR BATTERY INTERCONNECTIONS (TABLE B ITEMS D1, D2, D3, D4, D5) AND BATTERY TERMINAL PLATE ASSEMBLY ARE GIVEN ON SHEET F4.

21. ITEMS D9, D10 AND D11 IN TABLE B ARE BATTERY CABLE KITS FOR THE TYPICAL PLANT CONFIGURATIONS PRESENTED IN FIGURES KK AND LL ON SHEET F9 AND F10. ITEM D10 IS USED IN POSITIONS 4, 6 AND 7. ITEM D11 IS USED IN POSITIONS 1, 2, 3 AND 5. BATTERY CABLE KITS CONNECT ITEM D6 TERMINAL PLATE OR ITEM D7 DISCONNECT SWITCH TO THE DISTRIBUTION ASSEMBLY. LUG INFORMATION IS ALSO PROVIDED IN TABLE Y.

22. FOR EASE OF RECTIFIER INSTALLATION AND FUTURE GROWTH, IT IS RECOMMENDED THAT ALL THREE AC INPUTS TO A RECTIFIER SHELF ASSEMBLY (RSA) BE WIRED AT INITIAL INSTALLATION. AC INPUT MAY ENTER RSA FROM THE LEFT OR RIGHT. APPROPRIATE LUGS FOR 10 AWG WIRE ARE FURNISHED. REFER TO LABEL ON J85702B-2 RSA (REPRODUCED IN FIGURE O ON SHEET F8) FOR WIRE ROUTING, RECOMMENDED AC FITTINGS, CRIMP TOOLS AND APPROPRIATE TORQUE VALUE.

23. INSTALLER SHALL ROUTE CP1 WIRING FOR OFFICE ALARMS IN J85501D-1 CONTROLLER THROUGH OPENING IN LEFT SIDE OF THE CHASSIS. ALLOW SLACK IN CABLE LOOP OUTSIDE THE CONTROLLER SO THAT THE CONTROLLER DRAWER WILL SLIDE OUT FREELY. OFFICE ALARM CONNECTION INFORMATION IS PRESENTED IN T-82670-31 AND ON LABEL LOCATED INSIDE OF J85501D-1 CONTROLLER DOOR.

24. WHEN ONLY ONE RECTIFIER SHELF IS ORDERED, EXTRA COMPONENTS FOR THE SECOND RECTIFIER SHELF MAY BE OMITTED.

25. UNASSIGNED.

26. UNASSIGNED.

27. RECOMMENDED LOCATIONS FOR THE TOP MOUNTING HOLE OF ITEM 39 BRACKETS ARE HOLE POSITIONS #2, #12, #24, #34, (BOTH SIDES OF FRAME ASSY). HOLE #1 IS THE TOP HOLE ON EITHER SIDE AS SHOWN IN VIEW V-V ON SHEET C3. MOUNTING POSITIONS MAY VARY TO PROVIDE CABLE SUPPORT, AND BE ABLE TO SECURE THE REAR COVER.

28. TERMINAL BLOCKS IN CONTROLLER CIRCUIT PACKS ARE SEPARABLE CONNECTORS THAT CAN BE REMOVED FROM THE BOARDS FOR WIRE INSTALLATION.

MANUFACTURING NOTES (CONT'D)

29. THE INTERNAL SELECTIVE HIGH VOLTAGE SHUTDOWN LEVEL AND LOAD SHARE ENABLE/DISABLE FEATURE ON RECTIFIERS (107310187) ARE SET WITH DIP SWITCH 701 AS SHOWN IN TABLE AC. FACTORY DEFAULT SETTING FOR HIGH VOLTAGE SHUTDOWN IS -58.0 VOLTS LOAD SHARE ENABLE.

30. IF A PLANT DOES NOT HAVE REDUNDANT RECTIFIERS AND DOES NOT HAVE BATTERY BACKUP AVAILABLE JUMPER P105 (SEE FIG L SHEET F5) MUST BE MOVED FROM THE ENABLE POSITION (PINS 1 & 2) TO THE DISABLE POSITION (PINS 2 & 3). (SEE NOTE 55.)

31. LIST 9, 10 AND 11 BATTERY STANDS COME WITH A 3 FT GROUND CABLE ATTACHED. WHEN A LIST 1 FRAME IS EQUIPPED WITH A BATTERY STAND, MOVE THE 3 FT CABLE TO THE TOP OF THE FRAME AS SHOWN IN FIGURE DD. CONNECT 846746519 CABLE BETWEEN THE FRAME AND THE BATTERY STAND.

32. WHEN ONE RECTIFIER SHELF IS ORDERED AND EQUIPPED WITH THE AC PREWIRE OPTION, THE SHOP SHALL RETURN EXTRA LIST 12 MATERIAL WHICH IS NOT USED TO THE KANBAN FOR REUSE.

33. DIP SWITCH SETTINGS FOR BATTERY MANAGEMENT ARE GIVEN IN TABLES ZA-ZC. DIP SWITCH LOCATIONS ARE GIVEN IN SECTION B1-B1, SHEET C1.

34. FOR EASE OF RECTIFIER INSTALLATION WHEN THE LIST 12 OPTION IS ORDERED, IT IS RECOMMENDED THAT ALL AC INPUTS TO THE RECTIFIER SHELF ASSEMBLIES BE WIRED AT INITIAL INSTALLATION. REFER TO SHEET F11 FOR WIRE ROUTING.

35. WHEN INSTALLING LIST 12 (AC PREWIRE) INSTALL THE AC BOX AND RACEWAY, ITEMS 99 AND 100, BEFORE INSTALLING THE CONTROLLER OR RECTIFIER SHELVES.

36. HARDWARE FOR MOUNTING THE BATTERY COVER AND RETAINER BARS ARE PROVIDED IN HARDWARE KIT "PREP 1" REFER TO SHEET F1

37. WIRE LIST 27 PER T82670-31 FIG. 3A, 5A AND H13 WIRING OPTION K. IN ACCORDANCE WITH T82670-31, CABLE ASSEMBLIES 847731783 AND 847731809 MUST BE TERMINATED ON THE BATTERY BUS "1" 847606175 AND NOT ON BATTERY BUS "2" 847606209 (SEE VIEW VV SHEET C3)

38. INFORMATION FOR RATING/NAMEPLATE COMCODE 847230505:

J85500D3[LIST OPTIONS] |

 | DATE:YYMMDD

 INPUT 6(208-240V~) 16.5A EA | SD:82670-02

 50-60 HZ |

 OUTPUT: 40-58VDC, 300A MAX | SHORT CIRCUIT
 | CURRENT:10,000A

 SAFETY AGENCY MARKS UL & CUL (SEE BELOW)

 THE UL LISTING MARK (SELECT 77X8) AND CUL MARK (SELECT CSA AND OPTION CUL) ARE APPLIED TO ALL LIST OPTIONS EXCEPT THOSE THAT CONTAIN OPTION LIST 5 OR LIST 6. BEFORE ANY MARK CAN BE ADDED TO THE LABEL, CHECK THE SAFETY DATA BASE ON IGOR (ENTER "MARK J85500D-3" AT PROMPT) TO VERIFY THAT THE PRODUCT CAN BE AGENCY MARKED.

ENGINEERING NOTES

51. THE J85500D-3 BATTERY PLANT IS A RECOMMENDED REPLACEMENT FOR THE J85500D-1 AND J85500D-2 BATTERY PLANTS. ALL NEW FEATURES AND FUTURE IMPROVEMENTS WILL BE INCORPORATED ON THE J85500D-3 BATTERY PLANT AND NOT ON THE J85500D-1 AND J85500D-2 PLANTS.

52. THE LOW VOLTAGE DISCONNECT/RECONNECT FEATURE AND THE LOW VOLTAGE LOAD DISCONNECT/RECONNECT FEATURES ARE NOT FIELD UPGRADEABLE.

53. THE J85501D-1 CONTROLLER IS FACTORY CONFIGURED PER TABLE R FOR BATTERIES WHICH FLOAT AT 2.25V AND 2.27V FOR 24 CELLS. TO CONFIGURE THE CONTROLLER WITH OTHER SETTINGS, THE ENGINEER SHALL PROVIDE THE INSTALLER WITH THE NECESSARY INFORMATION PER TABLE R AND AD.

54. SEE NOTE 8.

55. IN PLANTS WHICH DO NOT HAVE REDUNDANT RECTIFIERS AND DO NOT HAVE BATTERY BACKUP AVAILABLE, IF ALL RECTIFIERS ARE SHUT DOWN DUE TO A HIGH VOLTAGE OCCURRENCE, THE CONTROLLER LOSES POWER AND WILL CONTINUALLY ATTEMPT TO RESTART THE RECTIFIERS. DISABLING THE AUTOMATIC RESTART FUNCTION WILL PREVENT THE INFINITE CYCLE OF RECTIFIER SHUTDOWN AND RESTART. (SEE NOTE 30)

56. ASSIGNMENT OF CIRCUIT BREAKERS/FUSES IS CRITICAL IN ORDER NOT TO BLOCK DISTRIBUTION GROWTH. IF DISTRIBUTION FEEDERS LEAVE THE BAY TO THE LEFT, EQUIP CIRCUIT BREAKERS/FUSES STARTING FROM THE #1 POSITION. IF THE DISTRIBUTION FEEDERS LEAVE THE BAY TO THE RIGHT, EQUIP CIRCUIT BREAKERS/FUSES BEGINNING WITH THE #42 POSITION.

57. FOR LISTS 3-6 DISTRIBUTION PANELS, ENGINEER SHALL ORDER CIRCUIT BREAKERS AND FUSES PER TABLE J FOR FIELD INSTALLATION (SEE NOTE 17). THE 45A AND 60A CIRCUIT BREAKERS ARE RECOMMENDED ONLY FOR THE BOTTOM ROWS (I.E. EVEN POSITIONS FROM 2 THROUGH 20 AND ODD POSITIONS FROM 23 THROUGH 41). BALANCE THE LOAD EVENLY BETWEEN UPPER AND LOWER SIDES. 3-30 AMPERE CIRCUIT BREAKERS AND FUSES OCCUPY ONE POSITION. THE 45 & 60 AMPERE CIRCUIT BREAKERS OCCUPY TWO POSITIONS. THERE IS A TOTAL OF FORTY TWO POSITIONS AVAILABLE.

58. LIST 3-6 DISTRIBUTION PANELS HAVE CONNECTION POINTS FOR SEVEN STRINGS OF BATTERIES (SEE FIGURE N, SHEET F7). LIST 23-26 DISTRIBUTION PANELS HAVE CONNECTION POINTS FOR SIX STRINGS OF BATTERIES, LIST 27 DISTRIBUTION PANELS HAVE CONNECTION POINTS FOR FOUR STRINGS OF BATTERIES (SEE FIGURE B, SHEET F3).

59. SEE NOTE 19.

60. SEE NOTE 22.

61. SEE NOTE 29.

62. SEE NOTE 21

63. SPARE PARTS SHALL BE PROVIDED PER TABLE T, AND FURNISHED ONLY IN ACCORDANCE WITH CUSTOMERS REQUEST.

64. FLOOR PLAN DATA IS GIVEN ON SHEET G1. THIS INFORMATION INCLUDES HEAT RELEASE DATA, WEIGHT, FOOTPRINT AND FLOOR LOADING INFORMATION.

ENGINEERING NOTES (CONT'D)

65. IF CABLES LARGER THAN 8 GAGE ARE REQUIRED FOR A TWO POSITION CIRCUIT BREAKER OR FUSE LISTED ON TABLE J, A TERMINAL ADAPTER BUS KIT (COMCODE 846561447) MAY BE ORDERED. TERMINAL LUGS MUST BE ORDERED PER TABLE W FOR TWO POSITION BREAKERS. IF 8 GAGE CABLE IS REQUIRED FOR A SINGLE POSITION CIRCUIT BREAKER LISTED IN TABLE J ORDER LUG KIT 846746857 CIRCUIT BREAKER KITS ORDERED PER TABLE J DO CONTAIN THE LUG/ADAPTER KITS.

66. ALL BUS BARS ARE SOLDER PLATED COPPER.

67. SYSTEM GROUND CONNECTION (CENTRAL OFFICE GROUND), SHOWN IN SECT. SS-SS ON SHEET F7 OR SECT. M-M ON SHEET F3, WILL ACCOMMODATE THE FOLLOWING CABLE AND LUG SIZES (ALL SIZED FOR 1/4 INCH BOLT).

KS24194 L1 KS24194 L2

6 AWG WP91412 L3 6 AWG
 4 AWG WP91412 L5 ----
 2 AWG WP91412 L54 4 AWG
 1 AWG WP91412 L8 2 AWG

FOR SYSTEM GROUND APPLICATIONS LARGER THAN THOSE SPECIFIED ABOVE, USE ADAPTER KIT ITEM F1 (TABLE B) AS SHOWN IN SECT. JJ-JJ ON SHEET F7 OR SECT. N-N ON SHEET F3. THE ADAPTER KIT WILL ACCOMMODATE THE FOLLOWING CABLE AND LUG SIZES (ALL SIZED FOR 3/8 INCH BOLT).

KS24194 L1 KS24194 L2

1/0 AWG WP91412 L56 -----
 2/0 AWG WP91412 L57 1/0 AWG
 3/0 AWG WP91412 L77 2/0 AWG
 4/0 AWG WP91412 L59 3/0 AWG
 ----- WP91412 L27 4/0 AWG

68. UNASSIGNED.

69. ITEM E1 AND E2 (TABLE B), INCLUDE A MICROPROCESSOR BOARD, BACKUP BATTERY, AND PRODUCT MANUAL.

70. ITEM E3 (TABLE B) INCLUDES A BAC1 BOARD (CP3), A SET OF CURRENT LIMITING RESISTOR ASSEMBLIES, AND A PRODUCT MANUAL.

71. ITEM E4 (TABLE B) INCLUDES A BAC2 BOARD (CP3), A SET OF CURRENT LIMITING RESISTOR ASSEMBLIES, A TERMINATION UNIT WITH CABLE SET, AND A PRODUCT MANUAL.

72. CURRENT LIMITING RESISTOR ASSEMBLIES (PART OF TABLE B ITEMS E3,E4) ARE REQUIRED IN THE INSTALLATION OF CP3 AND ARE CALIBRATED INTO THE DATALOGGER. ANALOG CHANNEL READINGS WILL NOT BE ACCURATE WITHOUT THESE RESISTORS. THEY ARE REQUIRED TO ENSURE THAT FIELD WIRING TO CP3 IS CLASS 2 PER NEC. (SEE PRODUCT MANUAL 167-790-109).

73. UNASSIGNED.

74. ITEM E5 (TABLE B) CONSISTS OF TWO SPEECH INTEGRATED CIRCUITS AND INSTRUCTIONS TO ADD THE VOICE RESPONSE FEATURE TO ITEM E1 (TABLE B).

75. FOR ASSEMBLY OF THE TERMINATION PANEL ITEM E4 (TABLE B) SEE PRODUCT MANUAL (LINEAGE 2000 ECS CONTROLLER) SUPPLIED WITH LIST 2.

76. PLANTS INITIALLY EQUIPPED WITH ONE RECTIFIER SHELF MAY NOT BE FIELD UPGRADED WITH A SECOND RECTIFIER SHELF. THE PLANT MUST BE SHUTDOWN IN ORDER TO SAFELY FIELD INSTALL CABLES FROM THE CONTROLLER AND DISTRIBUTION TO THE SECOND SHELF.

| | | | | |
|---|--|-----------|-------|-------------------|
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| MATRIX EBOM VERSION PLANT J85500D3 17 | | | SHEET | ISSUE |
| TYCO ELECTRONICS | | J85500D-3 | A2 | 18 |
| | | | | DWG SIZE C2 |

ENGINEERING NOTES (CONT'D)

- 77. WHEN PLUG-IN CIRCUIT BREAKERS AND FUSES ARE USED ON THE SAME PANEL AND THERE IS BOTH A TRIPPED BREAKER AND A BLOWN FUSE AT THE SAME TIME, THE LED ON THE FUSE HOLDER WILL NOT LIGHT. HOWEVER, WHEN THE BREAKER IS RESET, THE FUSE HOLDER LED WILL THEN LIGHT. AN ALARM WILL BE SENT TO THE PLANT CONTROLLER UNTIL BOTH FAULTS ARE CLEARED.
- 78. FOR LIST 23-27 DISTRIBUTION PANELS, ENGINEER SHALL ORDER CIRCUIT BREAKERS OR FUSES PER TABLE K FOR FIELD INSTALLATION (SEE NOTE 16). 3-50 AMPERE BREAKERS OCCUPY 1 POSITION, 60-100 AMPERE BREAKERS OCCUPY 2 POSITIONS. THE 60-100 CIRCUIT BREAKERS SHOULD BE INSTALLED IN THE TOP LEVEL (POSITIONS 12-21 AND 32-41) OF THE DISTRIBUTION PANEL, FOR A MAXIMUM OF 10 TWO POSITION BREAKERS. THERE ARE A TOTAL OF 42 POSITIONS AVAILABLE.
- 79. UNASSIGNED.
- 80. DO NOT EXCEED 200 AMPERE LOADING (LIST 2 CURRENT DRAIN) PER CIRCUIT BREAKER BUS BAR LEG. THERE ARE FOUR LEGS IN EACH LIST 23,24,25,26 OR 27 DISTRIBUTION PANEL. SEE FIGURE A ON SHEET F3.
- 81. ITEM F2 (TABLE B) CONSISTS OF (3) 130" LENGTHS OF KS15141 CDG 3 CONDUCTOR WIRE (10 GA), TERMINATED ON ONE END WITH AMP LUGS. SHIPPED LOOSE ARE (3) HUBBELL 30A 250V AC PLUGS (PART # 9331 OR EQUIVALENT), (3) 5/8 90 DEGREE ELBOW AND HARDWARE. ITEM F2 IS NOT REQUIRED WHEN LIST 12 IS ORDERED.
- 82. LISTS 3 AND 4 WERE RATED DISCONTINUED AVAILABILITY (DA) ON ISSUE 3 OF THIS DRAWING. THEY ARE REPLACED BY LIST 23 AND 24 RESPECTIVELY TO ACCOMMODATE LARGER CIRCUIT BREAKER AMPACITY.
- 83. LISTS 5,6 PROVIDES BATTERY MANAGEMENT SYSTEM CABLING FOR ONE STRING OF AT&T VR BATTERIES. IF TWO STRINGS ARE REQUIRED SEE TABLE B FOR REQUIRED ADDITIONAL CABLING ORDERING INFORMATION.
- 84. IF MORE THAN 12 FEET OF CABLE ARE NECESSARY TO REACH FROM THE BATTERY MANAGEMENT SYSTEM CIRCUIT PACK (BDW1) TO THE BATTERY STRING(S), SEE TABLE B FOR EXTENSION CABLE ORDERING INFORMATION. EACH EXTENSION CABLE MAY BE LINKED TOGETHER. (50 FEET MAX RECOMMENDED)
- 85. LISTS 5,6 INCLUDES A CABLE SET FOR CONNECTION BETWEEN THE BATTERY MANAGEMENT SYSTEM AND CP1. IF CP3 IS INSTALLED AND REMOTE MONITORING OF BATTERY PARAMETERS IS DESIRED, SEE TABLE B FOR CP3 CABLE ORDERING INFORMATION.
- 86. IF THE BATTERY MANAGEMENT SYSTEM IS DESIRED FOR AN EXISTING PLANT IN THE FIELD, SEE TABLE B FOR RETROFIT KIT ORDERING INFORMATION.
- 87. ITEMS E6 AND E7 (TABLE B) CONTAINS A CP2 BOARD, ITS BACKUP BATTERY, WIRING, RS485-TO-RS232 CONVERTER, AND PRODUCT MANUAL. X.25/TL1 IS A DIFFERENT COMMUNICATIONS PROTOCOL THAT MAY BE USED TO ACCESS THE CONTROLLER.
- 88. UNASSIGNED.
- 89. WHEN INSTALLING THE BATTERY MANAGEMENT RETROFIT KIT (ED83241-30 GROUP K1) IT IS RECOMMENDED THAT THE BD ALARM LEVEL BE SET TO -52.0V FOR 24 CELL STRINGS, AND -49.5 FOR 23 CELL STRINGS.
- 90. IF REMOTE MONITORING OF BATTERY PARAMETERS IS DESIRED (CONNECTION TO CP3), VERSION 2.2 OR GREATER IS REQUIRED IN THE MICROPROCESSOR BOARD (CP2). THIS IS ORDERABLE FROM TABLE B AS ITEM E1 OR E2.
- 91. THE ITEM F3 (TABLE B) 12 INCH BAY EXTENSION MAY BE USED TO RETROFIT EXISTING BAYS ONLY UNDER CERTAIN CIRCUMSTANCES. THE BAY ENVIRONMENT SHOULD BE EXAMINED TO INSURE THAT PHYSICAL OBSTRUCTIONS WILL NOT PRECLUDE EXTENSION INSTALLATION. THIS OPTION IS DESIGNED TO BE USED ON THE INITIAL BAY ONLY. SHEET F8, FIGURE 11 SHOWS AN INSTALLED ITEM F3 (TABLE B) 12 INCH BAY EXTENSION.
- 92. UNASSIGNED.

ENGINEERING NOTES (CONT'D)

- 93. THIS KIT MAY CONTAIN EXTRA HARDWARE NOT REQUIRED TO INSTALL CERTAIN LISTS IN THE FIELD.
- 94. ENGINEER MUST PROVIDE ANCHOR MATERIAL FOR FRAME INSTALLATION. MATERIAL MAY BE ORDERED PER TABLE P. WHEN GROUP 10 BATTERY STAND IS REQUIRED FOR SEISMIC ZONE 0,1 AREAS, ANCHORS ARE LOCATED ONLY IN POSITIONS A AND C ON FIGURE AA.
- 95. LIST 1, AND LIST 15 MAY BE ORDERED AS STAND-ALONE LISTS OR THEY MUST BE EQUIPPED (AT A MINIMUM) WITH:
 - (ONE) LIST 2 CONTROLLER
 - (ONE) LIST 5, 6, 23, 24, 25, 26 OR 27 DISTRIBUTION PANEL
 - (ONE) LIST 7 RECTIFIER SHELF
- AFTER SATISFYING THE ABOVE, LIST 1 MAY THEN BE EQUIPPED WITH (ONE) LIST 9, 10 OR 11 BATTERY STAND AND WITH LIST 12 AC PRE-WIRE. LIST 1 OR 15 MAY BE EQUIPPED WITH LIST 8 RECTIFIER SHELF AND WIRED PER LIST "A". LIST "A" REQUIRES LIST 23, 24, 25, 26, OR 27
- LIST 1 MAY NOT BE ORDERED WITH OR EQUIPPED WITH LIST 15
- 96. ENGINEER MUST ORDER ALL FIELD-INSTALLED ITEMS FROM TABLES B,J,K,L,N,P & W TO COMPLETE A TOTAL SYSTEM/PLANT CONFIGURATION. THESE ITEMS ARE SHIPPED SEPARATELY AND INCLUDE RECTIFIERS, BATTERIES, CIRCUIT BREAKERS, FUSE HOLDERS, FUSES, CONTROLLER OPTIONS, ANCHOR BOLTS, TERMINATION KITS FOR DISTRIBUTION AND TERMINAL LUGS KITS FOR BATTERY CONNECTIONS. ITEMS ORDERED PER TABLES WILL BE LISTED ON THE SHIPPING RECEIPT AND ITEMIZED BY COMCODE. REFER TO TABLE BF FOR BATTERIES PREVIOUSLY ORDER.
- 97. LIST 14 WAS RATED DISCONTINUED AVAILABILITY (DA) ON ISSUE 2 OF THIS DRAWING. THE CABLE RACK TRANSITION WHICH WAS ORDERED BY LIST 14 IS NOW ORDERED FROM TABLE B, ITEM F6).
- 98. THE THERMAL COMPENSATION EXPANSION KIT (ITEM E11, TABLE B) SHOULD BE ORDERED IN CONJUNCTION WITH LIST 25 OR 26 TO PROVIDE MONITORING FOR MORE THAN FOUR STRINGS OF BATTERIES.
- 99. THE THERMAL COMPENSATION RETROFIT KIT (ITEM E12, TABLE B) SHOULD BE ORDERED TO UPGRADE AN EXISTING J85500D- BATTERY PLANT WITH THE THERMAL COMPENSATION (SLOPE/STEP) FEATURE.
- 100. THE THERMISTOR KIT, PADDLES (ITEM E13, TABLE B) IS INTENDED TO BE USED WITH THE VR BATTERIES. THE KIT CONTAINS TWO THERMISTORS THAT ARE INSERTED BETWEEN THE BATTERY CELLS. SEE SHEET F1, FRONT VIEW, FOR AN EXAMPLE OF THE THERMISTORS INSERTED INTO THE BATTERY STRING. THIS KIT CONTAINS TWO THERMISTORS AND ASSOCIATED CABLE ASSEMBLIES.
- 151. THE THERMISTOR KIT, RINGS (ITEM E14, TABLE B) IS INTENDED TO BE USED WHEN THE BATTERY CELLS ARE NOT ADJACENT TO EACH OTHER (E.G., AN AIR GAP IS PRESENT BETWEEN CELLS). THE RING TERMINAL IS A 1/4" DIAMETER RING TERMINAL. PLACE IT ON THE NEGATIVE TERMINAL OF THE BATTERY. THE KIT CONTAINS TWO THERMISTORS AND ASSOCIATED CABLE ASSEMBLY.
- 152. RESERVED
- 153. RESERVED
- 154. RESERVED
- 155. ITEM I1 IN TABLE B CONTAINS (1) J85500D-3 PRODUCT MANUAL (167-790-064), (1) T-82670-31 WIRING DRAWING, (1) SD-82670-02 SCHEMATIC DRAWING.

ENGINEERING NOTES (CONT'D)

- 157. LOW-VOLTAGE LOAD DISCONNECT/RECONNECT IS NOT A TYPICAL PLANT OPTION. IT IS AVAILABLE TO CUSTOMERS WHO WISH TO DISCONNECT LOADS FROM THE BATTERY PLANT AT 42 VOLTS. AFTER A NORMAL BATTERY DISCHARGE AND LOAD DISCONNECT, THE PLANT VOLTAGE MUST REMAIN BELOW THE RECONNECT VOLTAGE (49.0 VOLTS) PRIOR TO RECTIFIER RESTART. THIS ENSURES THAT THE LOAD DISCONNECT CONTACTOR DOES NOT CYCLE THE LOAD (S) ON/OFF PRIOR TO RECTIFIER RESTART.
- 158. TABLE AB LISTS THE ORDERABLE CONFIGURATIONS OF THE J85500D-3 BY COMCODE. AS OF ISSUE 12, ALL ORDERS MUST BE PLACED BY COMCODE. NO OTHER ORDERS WILL BE ACCEPTED.
- 159. THE J85500D-3 IS SCHEDULED TO GO DA (DISCONTINUED AVAILABILITY) AS OF 09-30-00. THE J85500D-3 BATTERY PLANT IS BEING REPLACED BY THE GPS 4812, ORDERED THROUGH THE H569-436 ORDERING GUIDE.
 - (TO MAINTAIN EXISTING J85500D-3 PRODUCT ONLY, SPARE PARTS MAY BE ORDERED BY COMCODE FROM THE TABLES FOUND ON THE A SHEETS.)

| TABLE AB | |
|--------------------------|---|
| ORDERABLE CONFIGURATIONS | |
| (SEE NOTE 158) | |
| 108353889 | J85500D-3 L1 E/W (1)L2, (1)L5, (1)L7, (1)L11 |
| 108681024 | J85500D-3 L1 E/W (1)L2, (1)L5, (1)L7, (1)L8 |
| 108508680 | J85500D-3 L1 E/W (1)L2, (1)L5, (1)L7, (1)L8, (1)L11 |
| 108167917 | J85500D-3 L1 E/W (1)L2, (1)L6, (1)L7, (1)L11 |
| 108167982 | J85500D-3 L1 E/W (1)L2, (1)L6, (1)L7, (1)L8, (1)L11 |
| 108168022 | J85500D-3 L1 E/W (1)L2, (1)L6, (1)L7, (1)L8, (1)L10 |
| 108167958 | J85500D-3 L1 E/W (1)L2, (1)L6, (1)L7, (1)L10 |
| 107976979 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L8, (1)L9, (1)L24 |
| 108292145 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L8, (1)L9, (1)L26 |
| 108344789 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L8, (1)L10, (1)L12, (1)L23 |
| 108305525 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L8, (1)L10, (1)L23 |
| 108167909 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L8, (1)L10, (1)L24 |
| 108368622 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L8, (1)L10, (1)L25 |
| 108279589 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L8, (1)L10, (1)L26" |
| 108593005 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L8, (1)L11, (1)L12, (1)L23" |
| 108305541 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L8, (1)L11, (1)L23" |
| 108284696 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L8, (1)L11, (1)L26" |
| 108167891 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L8, (1)L11, (1)L24" |
| 108305632 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L8, (1)L23" |
| 108412842 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L8, (1)L24" |
| 108279563 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L8, (1)L26" |
| 108279605 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L8, (1)L27" |
| 108333238 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L9, (1)L12, (1)L23" |
| 108315029 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L9, (1)L23" |
| 108487166 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L9, (1)L26" |
| 108274234 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L10, (1)L23" |
| 108167883 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L10, (1)L24" |
| 108167735 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L11, (1)L24" |
| 108502550 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L11, (1)L27" |
| 108305624 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L23" |
| 108279597 | J85500D-3 L1 E/W (1)L2, (1)L7, (1)L27" |
| 108611633 | J85500D-3 L1 E/W (1)L10 |
| 108415969 | J85500D-3 L1 E/W (1)L11 |
| 108344763 | J85500D-3 L15 E/W (1)L2, (1)L5, (1)L7, (1)L8" |
| 108332453 | J85500D-3 L15 E/W (1)L2, (1)L7, (1)L8, (1)L23" |
| 108279555 | J85500D-3 L15 E/W (1)L2, (1)L7, (1)L8, (1)L25" |
| 108543638 | J85500D-3 L15 E/W (1)L2, (1)L7, (1)L8, (1)L26" |

| TABLE AC: RECTIFIER DIP SWITCH | | | | | |
|-----------------------------------|------------|---|---|---|-------------------------|
| (SW701) SETTINGS FOR | | | | | |
| SR50/-48V RECTIFIER (SEE NOTE 29) | | | | | |
| SWITCH SETTINGS | | | | | |
| (0=OPEN, 1=CLOSED) | | | | | |
| INTERNAL SELECT HVSD (VOLTS) | LOAD SHARE | | | | 5 |
| | 1 | 2 | 3 | 4 | |
| -50.0 | 1 | 1 | 1 | 1 | 1=ENABLED 0=DISABLED |
| -51.0 | 1 | 1 | 1 | 0 | |
| -52.0 | 1 | 1 | 0 | 1 | |
| -53.0 | 1 | 1 | 0 | 0 | |
| -54.0 | 1 | 0 | 1 | 1 | |
| -55.0 | 1 | 0 | 1 | 0 | |
| -56.0 | 1 | 0 | 0 | 1 | |
| -57.0 | 1 | 0 | 0 | 0 | |
| -58.0 | 0 | 1 | 1 | 1 | |

| | | | | |
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| MATRIX EBOM VERSION | | SHEET | ISSUE | DWG |
| PLANT J85500D3 17 | | A3 | 18 | SIZE |
| TYCO ELECTRONICS | | J85500D-3 | | C2 |

TABLE AD: DIP SWITCH SETTINGS FOR CONTROLLER (SEE NOTES 7, 53)

SWITCH SETTINGS (0 = OPEN, 1 = CLOSED)

| SW | 101-HV/EQ | 102-HV/FL | 103-BD | SWITCH SETTING | | | | | |
|--------|-----------|-----------|--------|----------------|----|----|----|----|----|
| | | | | -1 | -2 | -3 | -4 | -5 | -6 |
| -51.00 | -49.00 | -46.00 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| -51.50 | -49.50 | -46.50 | 0 | 1 | 1 | 1 | 1 | 1 | 0 |
| -52.00 | -50.00 | -47.00 | 1 | 0 | 1 | 1 | 1 | 1 | 0 |
| -52.50 | -50.50 | -47.50 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| -53.00 | -51.00 | -48.00 | 1 | 1 | 0 | 1 | 1 | 1 | 0 |
| -53.50 | -51.50 | -48.50 | 0 | 1 | 0 | 1 | 1 | 1 | 0 |
| -54.00 | -52.00 | -49.00 | 1 | 0 | 0 | 1 | 1 | 1 | 0 |
| -54.50 | -52.50 | -49.50 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |
| -55.00 | -53.00 | -50.00 | 1 | 1 | 1 | 0 | 1 | 1 | 0 |
| -55.50 | -53.50 | -50.50 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |
| -56.00 | -54.00 | -51.00 | 1 | 0 | 1 | 0 | 1 | 1 | 0 |
| -56.50 | -54.50 | -51.50 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| -57.00 | -55.00 | -52.00 | 1 | 1 | 1 | 0 | 0 | 1 | 0 |
| -57.50 | -55.50 | -52.50 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| -58.00 | -56.00 | -53.00 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| -58.50 | -56.50 | -53.50 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| -59.00 | -57.00 | -54.00 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| -59.50 | -57.50 | -54.50 | 0 | 1 | 1 | 1 | 1 | 0 | 0 |
| -60.00 | -58.00 | -55.00 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |

TABLE B CONTINUED (SEE NOTE 96)

SUPPLEMENTARY COMPONENTS WHICH ARE FIELD INSTALLED CONTROLLER OPTIONS

| ITEM | DESCRIPTION | CODE | WIRING INFORMATION |
|-----------------------------------|---|-----------|----------------------------|
| E1 | ONE MICROPROCESSOR CIRCUIT PACK (CP2) WHICH PROVIDES REMOTE/LOCAL MONITORING AND CONTROL FUNCTIONS. (SEE NOTES 69,74) | 847366788 | T-82670-31 FIG H7 |
| E2 | HAS BEEN DA'D AS OF 9/99 | 847366796 | T-82670-31 FIG H7 |
| E3 | ONE BAC1 DATALOGGER CIRCUIT PACK (CP3). CP3 IS A DATA ACQUISITION CIRCUIT PACK THAT ALWAYS REQUIRES AN ITEM E1 OR E2 (CP2) CIRCUIT PACK. (SEE NOTES 70,72) | 846575223 | T-82670-31 FIG H9 |
| E4 | ONE BAC2 DATALOGGER CIRCUIT PACK (CP3) WHICH IS THE SAME AS ITEM E3 (CP3), WITH A REMOTE TERMINATION PANEL. THE REMOTE TERMINATION PANEL ALLOWS EXTERNAL CONNECTION TO THE (CP3) CIRCUIT PACK. (SEE NOTES 71,72,75) | 846632982 | T-82670-31 FIG H10 |
| E5 | HAS BEEN DA'D AS OF 9/99 | 846616894 | T-82670-31 FIG H10 |
| E6 | SAME AS ITEM E1 WITH X.25/TL1 FEATURES. (SEE NOTE 87) | 847366820 | T-82670-31 FIG H7 |
| E7 | HAS BEEN DA'D AS OF 9/99 | 847366838 | T-82670-31 FIG H7 |
| E8 | 48V PAD KIT (AN ACCESSORY FOR A MICROPROCESSOR WITH X.25/TL1 FEATURES.) | 847074507 | T-82670-31 FIG H7 |
| E9 | DIGITAL SERVICE UNIT KIT (AN ACCESSORY FOR A MICROPROCESSOR WITH X.25/TL1 FEATURES.) | 847074531 | T-82670-31 FIG H7 |
| E10 | SHELF KIT (AN ACCESSORY FOR A MICROPROCESSOR WITH X.25/TL1 FEATURES.) | 847074549 | T-82670-31 FIG H7 |
| E11 | THERMAL COMPENSATION (SLOPE/STEP) EXPANSION KIT (SEE NOTE 98) | 847618139 | T-82670-31 FIG H14,H15 " |
| E12 | THERMAL COMPENSATION (SLOPE/STEP) RETROFIT KIT (SEE NOTE 99) | 847618105 | T-82670-31 FIG 7,H14,H15 " |
| E13 | THERMISTOR KIT, PADDLES (SEE NOTE 100) | 847618048 | T-82670-31 FIG H15 |
| E14 | THERMISTOR KIT, RINGS (SEE NOTE 151) | 847618063 | T-82670-31 FIG H15 |
| MISCELLANEOUS KITS AND ASSEMBLIES | | | |
| ITEM | DESCRIPTION | CODE | WIRING INFORMATION |
| F1 | SYSTEM GROUND ADAPTER KIT. (NOTE 67) | 846638575 | |
| F2 | AC CABLE ASSEMBLY (SET OF 3) FOR RECTIFIER SHELF ASSEMBLY. ONE (1) REQUIRED PER SHELF. (NOTE 81) | 846826378 | T-82670-31 FIG H4 |
| F3 | TWELVE INCH EXTENSION FOR USE IN A EIGHT FOOT TALL FRAME ENVIROMENT. (SEE NOTE 91 AND SHEET F8, FIGURE 11.) | 847137403 | |
| F4 | | | |
| F5 | REAR COVER KIT FOR UPPER HALF OF BAY. (CLEAR) | 846730661 | |
| F6 | TRANSITION ASSY (CABLE RACK) (SEE NOTE 97) | 846830461 | |

TABLE B (SEE NOTE 96)

SUPPLEMENTARY COMPONENTS WHICH ARE FIELD INSTALLED POWER UNIT

| ITEM | DESCRIPTION | CODE | WIRING INFORMATION | |
|---------------------------|-------------------------------|---|---------------------|--|
| A1 | SR50/-48V 364 TYPE POWER UNIT | 107310187 | T82670-31 FIG 3,H14 | |
| IR BATTERY STRING OPTIONS | | | | |
| ITEM | QTY REQ | DESCRIPTION | CODE | WIRING INFORMATION |
| B1 | 4 | 12IR125 BATTERY. ORDER 4 FOR A SINGLE STRING. (RECOMMENDED FLOAT VOLTAGE -54.48V) | 407155399 | T83280-30 FIG H1 |
| B2 | | (1) 12IR125 BATTERY STRING DISCONNECT. ONE PER BATTERY STRING. | 601793722 | T83280-30 FIG HA |
| VR BATTERY STRING OPTIONS | | | | |
| ITEM | QTY REQ | DESCRIPTION | CODE | WIRING INFORMATION |
| D1 | 24 | 2VR375E BATTERY. ORDER 24 FOR A SINGLE 375AH STRING. (RECOMMENDED FLOAT VOLTAGE -54.48V) | 407435825 | T82670-31 FIG H3 T82671-30 FIG 1 |
| | 3 | (1) INTER-TIER CABLE KIT ORDERED SEPARATELY AND ALWAYS REQUIRED. | 846808764 | |
| D2 | 24 | 2VR250E BATTERY. ORDER 24 FOR A SINGLE 250AH STRING. (RECOMMENDED FLOAT VOLTAGE -54.48V) | 407435841 | T82670-31 FIG H3 T82671-30 FIG 1 |
| | 3 | (1) INTER-TIER CABLE KIT ORDERED SEPARATELY AND ALWAYS REQUIRED. | 846808764 | |
| D3 | 23 | 2VR375E BATTERY. ORDER 23 FOR A SINGLE 375AH STRING. (RECOMMENDED FLOAT VOLTAGE -52.21V) | 407435825 | T82670-31 FIG H3 T82671-30 FIG 1 |
| | 1 | DUMMY BATTERY | 407436518 | |
| | 3 | (1) INTER-TIER CABLE KIT ORDERED SEPARATELY AND ALWAYS REQUIRED. | 846808764 | |
| D4 | 23 | 2VR250E BATTERY. ORDER 23 FOR A SINGLE 250AH STRING. (RECOMMENDED FLOAT VOLTAGE -52.21V) | 407435841 | T82670-31 FIG H3 T82671-30 FIG 1 |
| | 1 | DUMMY BATTERY | 407436583 | |
| | 3 | (1) INTER-TIER CABLE KIT ORDERED SEPARATELY AND ALWAYS REQUIRED. | 846808764 | |
| D5 | 12 | 4VR125EL BATTERY. ORDER 12 FOR A SINGLE 125AH STRING. (RECOMMENDED FLOAT VOLTAGE -54.48V) | 407435858 | T82670-31 FIG H3 T82671-30 FIG 1 |
| | 1 | (1) INTER-TIER CABLE KIT ORDERED SEPARATELY AND ALWAYS REQUIRED. | 846808764 | |
| D6 | | (1) BATTERY STRING TERMINAL PLATE ASSEMBLY FOR TERMINATING WIRE SIZES 1/0 TO 4/0. NOT REQUIRED WITH ITEM D7. (SEE SHEET F4 FIG Y) | 601372550 | T82670-31 FIG H3,HA T83119-30 FIG HA" |
| D7 | | (1) BATTERY STRING DISCONNECT. ONE PER BATTERY STRING. (SEE SHEET F4 FIG Z) | 601371610 | T83119-30 FIG H5,HB" |
| D8 | | (1) REMOTE POWER OFF SWITCH FOR USE WITH ITEM D7. ONE REQUIRED PER PLANT. | 601371628 | T83119-30 FIG H6,HC" |
| D9 | | BATTERY CABLE KIT -- ONE 30 FOOT LENGTH OF 1/0 CABLE, 4 CABLE LUGS AND ASSOCIATED HARDWARE. (SEE NOTES 20,21) | 846481232 | T82670-31 FIG H3 |
| D10 | | BATTERY CABLE KIT -- ONE 30 FOOT LENGTH OF 4/0 CABLE, 4 CABLE LUGS AND ASSOCIATED HARDWARE. (SEE NOTES 20,21) | 846481240 | T82670-31 FIG H3 |
| D11 | | BATTERY CABLE KIT -- ONE 21 FOOT LENGTH OF 1/0 CABLE, 4 CABLE LUGS AND ASSOCIATED HARDWARE. (SEE NOTES 20,21) | 846481257 | T82670-31 FIG H3 |

LINEAGE 2000 ECS BATTERY PLANT

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| | | | |
|--|-------------|-------------|-------------------|
| MATRIX EBOM VERSION PLANT J85500D3 17 | SHEET A4 | ISSUE 18 | DWG SIZE C2 |
|--|-------------|-------------|-------------------|

TYCO ELECTRONICS J85500D-3

| TABLE B CONTINUED (SEE NOTE 96) | | | |
|---|--|----------------------|--------------------|
| SUPPLEMENTARY BATTERY STAND OPTIONS EARTHQUAKE BRACING FOR ZONE 4 APPLICATIONS IS PROVIDED | | | |
| ITEM | DESCRIPTION | CODE | WIRING INFORMATION |
| G1 | EIGHT SHELF HIGH BATTERY STAND FOR 2 CELL (DEEP) AT&T VR BATTERIES (TWO STRINGS OF 2VR250E OR FOUR STRINGS OF 4VR125EL) (TOP SUPPORT REQUIRED) | J85504C-1 L31 | |
| G2 | EIGHT SHELF HIGH BATTERY STAND FOR 3 CELL (DEEP) AT&T VR BATTERIES (ONE STRING OF 2VR375E) (TOP SUPPORT REQUIRED) | J85504C-1 L33 | |
| G3 | FOUR SHELF HIGH BATTERY STAND FOR 2 CELL (DEEP) AT&T VR BATTERIES (ONE STRING OF 2VR250E OR TWO STRINGS OF 4VR125EL) | J85504C-1 L30 | |
| G4 | FOUR SHELF HIGH BATTERY STAND FOR 3 CELL (DEEP) AT&T VR BATTERIES (ONE STRING OF 2VR375E OR TWO STRINGS OF 4VR125EL) | J85504C-1 L32 | |
| G5 | FOUR SHELF HIGH BATTERY STAND FOR UP TO FOUR STRINGS OF 12R125 BATTERIES. | J85504D-1 L13 | |
| BATTERY MANAGEMENT SYSTEM ORDERING INFORMATION (SEE NOTES 83-86, 89) | | | |
| ITEM | DESCRIPTION | CODE | WIRING INFORMATION |
| H1 | RETROFIT KIT FOR AN EXISTING PLANT WITH ONE STRING OF AT&T VR BATTERIES. | ED83241-30 GRP K1 | |
| H2 | CABLE KIT FOR ONE ADDITIONAL AT&T VR BATTERY STRING. | ED83241-30 GRP K2 | |
| H3 | CABLE KIT FOR ONE TEN FOOT EXTENSION. | ED83241-30 GRP K3 | |
| H4 | CABLE KIT FOR CONNECTION TO CP3. | ED83241-30 GRP K4 | |
| BATTERY PLANT DOCUMENTATION | | | |
| ITEM | DESCRIPTION | CODE | WIRING INFORMATION |
| I1 | SERVICE DOCUMENTATION KIT (SEE NOTE 155) | 847732468 | |
| I2 | SPANISH DOCUMENTATION KIT | 847463486 | |

| TABLE BF LINEAGE 2000 VR SERIES BATTERIES INDIVIDUAL BATTERY ORDERING INFORMATION | | | | | | |
|---|----------------------------|--------------------|----------------------------|-----------|----------------------------|---|
| ENHANCED VR BATTERIES | | | | | | |
| OLD VR BATTERIES (DA'D) | | WITHOUT CAN (DA'D) | | WITH CAN | | MODEL NO. |
| COMCODE | SPEC | COMCODE | SPEC | COMCODE | SPEC | DESCRIPTION |
| 406020347 | KS23619, L2 | 407411065 | KS23619, L13 | 407435825 | KS23619, L23 | 2VR375E 2 VOLT, 375 AH VR SERIES BATTERY |
| 406020353 | KS23619, L3 | | | 407435833 | KS23619, L22 | 4VR125E 2 VOLT, 375 AH VR SERIES BATTERY |
| 406088914 | KS23619, L4 | 407436484 | KS23619, L14 | 407436518 | KS23619, L24 | - SPACER MODULE, 3 CELL |
| 406426411 | KS23619, L6 | | | 407435841 | KS23619, L26 | 2VR250E 2 VOLT, 250 AH VR SERIES BATTERY |
| 406622068 | KS23616, L7 | | | 407435858 | KS23616, L27 | 4VR125EL 4 VOLT, 125 AH VR SERIES BATTERY |
| 406533430 | KS23619, L8 | | | 407436583 | KS23619, L28 | - SPACER MODULE, 2 CELL |
| 106523194 | SELECT CODE 157-622-010 | 107817074 | SELECT CODE 157-622-011 | 107817074 | SELECT CODE 157-622-011 | VR SERIES BATTERY PRODUCT MANUAL |

| TABLE J: FIELD-INSTALLED COMPONENTS FOR LIST 3-6 DISTRIBUTION PANEL SEE TABLE W FOR LUG INFO. SEE NOTE 65 | | | | | | |
|--|----------------|-----------|----------------|--|--|--|
| CIRCUIT BREAKER KIT OPTIONS | | | | | | |
| ITEM | SIZE (AMPERES) | CODE | DESCRIPTION | | | |
| 1 | 3 | 406746313 | KS23616 L20 | | | |
| 2 | 5 | 406746321 | KS23616 L21 | | | |
| 3 | 10 | 406746339 | KS23616 L22 | | | |
| 4 | 15 | 406746347 | KS23616 L23 | | | |
| 5 | 20 | 406746354 | KS23616 L24 | | | |
| 6 | 30 | 406746362 | KS23616 L25 | | | |
| 7 | * 45 | 406746370 | KS23616 L26 | | | |
| 8 | * 60 | 406746388 | KS23616 L27 | | | |
| * TWO POSITION BREAKERS SEE NOTE 57 | | | | | | |
| FUSE OPTIONS | | | | | | |
| 9 | { } | 406980797 | FUSE HOLDER | | | |
| 10 | 5 | 407006329 | FUSE, TPA-5 " | | | |
| 11 | 10 | 407006337 | FUSE, TPA-10 " | | | |
| 12 | 15 | 407006345 | FUSE, TPA-15 " | | | |
| 13 | 20 | 407006352 | FUSE, TPA-20 " | | | |
| 14 | 25 | 407006360 | FUSE, TPA-25 " | | | |
| 15 | 30 | 407006378 | FUSE, TPA-30 " | | | |

| TABLE K: FIELD-INSTALLED COMPONENTS FOR LIST 23-27 DISTRIBUTION PANEL CIRCUIT BREAKER OPTIONS | | | | | | |
|---|----------------|-----------|--------------|--|--|--|
| ITEM | SIZE (AMPERES) | CODE | DESCRIPTION | | | |
| 1 | 3 | 407098417 | KS23616 L31 | | | |
| 2 | 5 | 407098425 | KS23616 L32 | | | |
| 3 | 10 | 407098433 | KS23616 L33 | | | |
| 4 | 15 | 407098458 | KS23616 L34 | | | |
| 5 | 20 | 407098474 | KS23616 L36 | | | |
| 6 | 25 | 407098482 | KS23616 L37 | | | |
| 7 | 30 | 407098490 | KS23616 L38 | | | |
| 8 | 40 | 407245448 | KS23616 L48 | | | |
| 10 | 45 | 407098516 | KS23616 L40 | | | |
| 11 | 50 | 407098524 | KS23616 L41 | | | |
| 12 | * 60 | 407098532 | KS23616 L42 | | | |
| 13 | * 70 | 407098540 | KS23616 L43 | | | |
| 14 | * 80 | 407098557 | KS23616 L44 | | | |
| 15 | * 90 | 407098565 | KS23616 L45 | | | |
| 16 | * 100 | 407098573 | KS23616 L46 | | | |
| * TWO POSITION BREAKERS SEE NOTE 78 | | | | | | |
| FUSE OPTIONS | | | | | | |
| 17 | { } | 406980797 | FUSE HOLDER | | | |
| 18 | 5 | 407006329 | FUSE, TPA-5 | | | |
| 19 | 10 | 407006337 | FUSE, TPA-10 | | | |
| 20 | 15 | 407006345 | FUSE, TPA-15 | | | |
| 21 | 20 | 407006352 | FUSE, TPA-20 | | | |
| 22 | 25 | 407006360 | FUSE, TPA-25 | | | |
| 23 | 30 | 407006378 | FUSE, TPA-30 | | | |

| TABLE DLT: OBSOLETE MATERIAL | | | |
|------------------------------|--------|--------------|---------------|
| ITEM | FORMER | | ISSUE REMOVED |
| | LISTS | QTY PER LIST | |
| 3 | 10,11 | 1 | 2.1 |
| 6 | 8 | 1 | 2.1 |
| 7 | 7,8 | 1 | 5 |
| 8 | 3 | 1 | 3 |
| 9 | 4 | 1 | 3 |
| 12 | 1 | 1 | 3 |
| 19 | 9 | 1 | 11 |
| 20 | 1 | 1 | 11 |
| 28 | 7 | 1 | 5 |
| 29 | 8 | 1 | 5 |
| 30 | 8 | 1 | 5 |
| 31 | 7 | 1 | 5 |
| 34 | 10 | 1 | 2.1 |
| 55 | 7,8 | 2 | 6 |
| 66 | 1,15 | 1 | 5 |
| 69 | 1,15 | 1 | 14 |
| 79 | 12 | 1 | 1.1 |
| 85 | 14 | 1 | 2 |
| 109 | 12 | 4 | 14 |
| 132 | 7,8 | 4 | 10 |
| 137 | 1 | 4 | 3 |
| 142 | 7,8 | 4 | 10 |
| 152 | 7,8 | 4 | 10 |
| 159 | 10,11 | 1 | 3 |
| 160 | 10,11 | 1 | 3 |
| 161 | 10,11 | 2 | 3 |
| 169 | 9 | 4 | 5 |
| 182 | A | 1 | 10 |

| TABLE L: TERMINAL LUG KITS FOR CIRCUIT BREAKERS OR FUSE HOLDERS SHOWN IN TABLE K. (SEE NOTES 16, 78) | | | |
|--|-----|----------|--|
| 847301660 10 - 14 AWG TERMINATION LUG KIT THIS KIT CONTAINS THE FOLLOWING ITEMS | | | |
| DESCRIPTION | QTY | DIE | USED WITH |
| WP91412 L73 | 1 | R-5473-5 | SINGLE POSITION CIRCUIT BREAKER OR FUSE HOLDER |
| DOUBLE HOLE TERM | 1 | | |
| WP91412 L93 | 1 | R-5473-5 | |
| SINGLE HOLE TERM | 1 | | |
| 10-32X7/16 SCR | 2 | | |
| WP91767 L3 1/4 TUBING 2IN | 2 | | |
| 847301678 8 AWG TERMINATION LUG KIT THIS KIT CONTAINS THE FOLLOWING ITEMS | | | |
| DESCRIPTION | QTY | DIE | USED WITH |
| WP91412 L52 | 1 | RED | SINGLE POSITION CIRCUIT BREAKER OR FUSE HOLDER |
| DOUBLE HOLE TERM | 1 | | |
| WP91412 L1 | 1 | RED | |
| SINGLE HOLE TERM | 1 | | |
| 10-32X7/16 SCR | 2 | | |
| WP91767 L4 3/8 TUBING 2IN | 2 | | |
| 847301686 6 AWG TERMINATION LUG KIT THIS KIT CONTAINS THE FOLLOWING ITEMS | | | |
| DESCRIPTION | QTY | DIE | USED WITH |
| WP91412 L108 | 1 | BLUE | SINGLE POSITION CIRCUIT BREAKER OR FUSE HOLDER |
| DOUBLE HOLE TERM | 1 | | |
| WP91412 L2 | 1 | BLUE | |
| SINGLE HOLE TERM | 1 | | |
| 10-32X7/16 SCR | 2 | | |
| WP91767 L5 1/2 TUBING 2IN | 2 | | |
| 847301694 4 AWG TERMINATION LUG KIT THIS KIT CONTAINS THE FOLLOWING ITEMS | | | |
| DESCRIPTION | QTY | DIE | USED WITH |
| WP91412 L5 | 1 | GREY | SINGLE POSITION CIRCUIT BREAKER OR FUSE HOLDER |
| DOUBLE HOLE TERM | 1 | | |
| WP91412 L4 | 1 | GREY | |
| SINGLE HOLE TERM | 1 | | |
| 10-32X7/16 SCR | 2 | | |
| WP91767 L5 1/2 TUBING 2IN | 2 | | |
| 847301702 6 AWG TERMINATION LUG KIT WITH TWO POSITION ADAPTER BUS BAR THIS KIT CONTAINS THE FOLLOWING ITEMS | | | |
| DESCRIPTION | QTY | DIE | USED WITH |
| TWO POSITION ADAPTER BUS BAR | 1 | | TWO POSITION CIRCUIT BREAKER |
| WP91412 L3 | 1 | BLUE | |
| DOUBLE HOLE TERM | 1 | | |
| WP91412 L111 | 1 | BLUE | |
| DOUBLE HOLE TERM | 1 | | |
| 10-32X7/16 SCR | 2 | | |
| .375-16 NUT | 2 | | |
| .375 FLAT WASHER | 2 | | |
| .375 LOCK WASHER | 2 | | |
| WP91767 L5 1/2 TUBING 2IN | 2 | | |
| 847659620 4 AWG TERMINATION LUG KIT WITH TWO POSITION ADAPTER BUS BAR THIS KIT CONTAINS THE FOLLOWING ITEMS | | | |
| DESCRIPTION | QTY | DIE | USED WITH |
| TWO POSITION ADAPTER BUS BAR | 1 | | TWO POSITION CIRCUIT BREAKER |
| WP91412 L5 | 1 | GREY | |
| DOUBLE HOLE TERM | 1 | | |
| WP91412 L116 | 1 | GREY | |
| DOUBLE HOLE TERM | 1 | | |
| 10-32X7/16 SCR | 2 | | |
| .375-16 NUT | 2 | | |
| .375 FLAT WASHER | 2 | | |
| .375 LOCK WASHER | 2 | | |
| WP91767 L5 1/2 TUBING 2IN | 2 | | |
| 847301447 2 AWG TERMINATION LUG KIT WITH TWO POSITION ADAPTER BUS BAR THIS KIT CONTAINS THE FOLLOWING ITEMS | | | |
| DESCRIPTION | QTY | DIE | USED WITH |
| TWO POSITION ADAPTER BUS BAR | 1 | | TWO POSITION CIRCUIT BREAKER |
| WP91412 L54 | 1 | BROWN | |
| DOUBLE HOLE TERM | 1 | | |
| WP91412 L121 | 1 | BROWN | |
| DOUBLE HOLE TERM | 1 | | |
| 10-32X7/16 SCR | 2 | | |
| .375-16 NUT | 2 | | |
| .375 FLAT WASHER | 2 | | |
| .375 LOCK WASHER | 2 | | |
| WP91767 L5 1/2 TUBING 2IN | 2 | | |

| TABLE M: LINEAGE 2000 ECS BATTERY PLANT | | | |
|---|----------------|-----------|--------------|
| ITEM | SIZE (AMPERES) | CODE | DESCRIPTION |
| 17 | { } | 406980797 | FUSE HOLDER |
| 18 | 5 | 407006329 | FUSE, TPA-5 |
| 19 | 10 | 407006337 | FUSE, TPA-10 |
| 20 | 15 | 407006345 | FUSE, TPA-15 |
| 21 | 20 | 407006352 | FUSE, TPA-20 |
| 22 | 25 | 407006360 | FUSE, TPA-25 |
| 23 | 30 | 407006378 | FUSE, TPA-30 |

| LINEAGE 2000 ECS BATTERY PLANT | | | | |
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| MATRIX EBOM VERSION PLANT J85500D3 17 | | | SHEET | ISSUE |
| TYCO ELECTRONICS | J85500D-3 | A5 | 18 | C2 |

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TABLE N: TERMINAL LUGS FOR CONNECTING IR BATTERY CABLES TO THE DISTRIBUTION PANEL SINGLE HOLE ANGLED CONNECTORS FOR 12IR125 BATTERY OR IR DISCONNECT

| LINE | FLEX CLASS I KS24194 L2 | WP-91412 LIST | COMCODE | STUD SIZE | DIE |
|------|-------------------------|-----------------|-----------|-----------|-------|
| 1 | 8 | 76 | 406021642 | .25 | RED |
| 2 | 6 | 15 | 405347774 | .25 | BLUE |
| 3 | 4 | 6 | 405347618 | .25 | GREY |
| 5 | 2 | 9 | 405347709 | .25 | GREEN |
| 7 | 1/0 | 54158UF (T & B) | 401604962 | .25 | BLACK |

DOUBLE HOLE CONNECTORS FOR DISTRIBUTION PANEL

| LINE | FLEX CLASS I KS24194 L2 | WP-91412 LIST | COMCODE | STUD SIZE | DIE |
|------|-------------------------|---------------|-----------|-----------|-------|
| 8 | 8 | 102 | 406338269 | .375 | RED |
| 9 | 6 | 111 | 406332841 | .375 | BLUE |
| 10 | 4 | 116 | 406332940 | .375 | GREY |
| 11 | 2 | 176 | 407726041 | .375 | GREEN |
| 13 | 1/0 | 57 | 405348236 | .375 | BLACK |

TABLE P: ANCHOR BOLT ORDERING GUIDE (SEE NOTE 94)

| LINE | SEISMIC ZONE | J85500D-3 LIST | ORDERING CODE | ANCHOR TYPE (HILTI) | HOLE SIZE | WRENCH | TORQUE (FT LBS) |
|------|--------------|----------------|---------------|---------------------|------------------------|--------|-----------------|
| 1 | 0,1 | ALL | 847135662 | (4) HDI-1/2 | 5/8" BIT 2" DEEP | 3/4" | 18 |
| 2 | 2,3 | 15 | 847135670 | (4) HSLG M12/0 TN | 18MM BIT 100MM DEEP | 19MM | 50 |
| | | 11 | 847320835 | | | | |
| | | 9 | | | | | |
| | | 10 | 847135738 | | | | |
| 3 | 4 | 15 | 847135670 | (4) HSLG M12/0 TN | 24MM BIT 125MM DEEP | 30MM | 125 |
| | | 11 | 847221074 | | | | |
| | | 9 | | | | | |
| | | 10 | 847135696 | | | | |

TABLE R: CONTROLLER FACTORY SETTINGS (FOR -54.0 V FLOAT) (SEE NOTES 7,53)

| BACKPLANE 846199602 | | | 113A CONTROL UNIT | | |
|---------------------|-------------|----------|-------------------|-------------|--------------------------|
| HEADER | JUMPER PINS | FUNCTION | HEADER | JUMPER PINS | FUNCTION |
| P602.1 | 2 & 3 | 48 VOLTS | P105 | 1 & 2 | RESTART ENABLED |
| P602.2 | | | | | |
| P602.3 | 2 & 3 | 48 VOLTS | P106 | 1 & 2 | EQUALIZE DISABLED |
| P602.4 | | | | | |
| | | | P107 | 1 & 2 | FOR SR SERIES RECTIFIERS |
| | | | P108 | | |

SWITCH SETTINGS (CP1)
0=OPEN, 1=CLOSED

| SWITCH | FUNCTION | SWITCH POSITION | | | | | |
|--------------------|-------------------------|-----------------|----|----|----|----|----|
| | | -1 | -2 | -3 | -4 | -5 | -6 |
| SW101 | HV/EQ LEVEL (-57 VOLTS) | 1 | 1 | 0 | 0 | 1 | 0 |
| SW102 | HV/FL LEVEL (-55 VOLTS) | 1 | 1 | 0 | 0 | 1 | 0 |
| SW103 WITH BAT MAN | BD LEVEL (-52 VOLTS) | 1 | 1 | 0 | 0 | 1 | 0 |
| SW103 NO BAT MAN | BD LEVEL (-53 VOLTS) | 1 | 0 | 0 | 0 | 1 | 0 |
| SW109 | METER SHUNT (300 AMPS) | 1 | 0 | 0 | 0 | 1 | 1 |

TABLE S: LOW VOLTAGE DISCONNECT SETTINGS (BAD1/BDW1 CKT PACK-CP5) (SEE NOTE 8)

| HEADER | JUMPER PINS | FUNCTION |
|---------------|-------------|-------------|
| P505.1,P505.2 | 1 & 2 | -42.5 VOLTS |
| P505.1,P505.2 | 2 & 3 | -40.5 VOLTS |

TABLE T: RECOMMENDED SPARE PARTS (SEE NOTE 63)

| COMCODE | DESCRIPTION | REFERENCE |
|-----------|--|-------------|
| 106671746 | 113A2 CONTROL UNIT | CP1 |
| 106509102 | CP-BAD1 LVD/FUSE BOARD | CP5 |
| 846835882 | DC FAN KIT (XS-22501 L15) | |
| 406281428 | REPLACEMENT BATTERY FOR CP2 (CR-1/3N) 406526079 IS AN APPROVED ALTERNATE | BT201 |
| 406526079 | REPLACEMENT BATTERY FOR CP2 (CR-1/3N) 406281428 IS AN APPROVED ALTERNATE | BR2032 |
| 405673146 | 1 1/3 A FUSE (WP90247 L7) | F501 - F511 |
| 405181983 | 2 A FUSE (WP90247 L9) | F512 |
| 106693245 | CP-BDW1 LVD/FUSE/BMS BOARD | |
| 107590200 | ACP-BIDI LVD/R FUSE, THERMAL COMPENSATION (SLOPE/STEP) BOARD | CP5 |
| 107617516 | CU-216A THERMAL COMPENSATION CONTROL UNIT | CU216A |
| 847589900 | TERMINAL BLOCK ASSEMBLY | TBA |
| 107842718 | CP-BAD10 LVLVD/FUSE BOARD | CP5 |

TABLE V: TIGHTENING TORQUES

| COMPONENT | HARDWARE | TORQUE (IN-LBS.) |
|--|---------------|------------------|
| LVD/R CONTACTOR | 5/16 NUT | 120 |
| SHUNT | 5/16 NUT | 120 |
| DISCHARGE RETURN | 8-32 SCREW | 11 |
| FRAME ASSEMBLY | 5/16-18 SCREW | 120 |
| LOAD LEADS | 6-32 SCREW | 5.5 |
| BATTERY AND BATTERY RETURN | 3/8 NUT | 240 |
| CABLE CONNECTIONS BETWEEN RECT. SHELF AND DISTRIBUTION | 5/16 NUT | 120 |
| BATTERY POSTS | 1/4 NUT | 60 |
| BATTERY TERMINAL | 1/4 NUT | 60 |
| PLATE ASSEMBLY | 5/16 NUT | 120 |
| FLOOR ANCHORS | 1/2 NUT | 60 (FT-LBS) |

TABLE W: TERMINAL LUGS FOR CIRCUIT BREAKERS OR FUSE HOLDERS SHOWN IN TABLE J. (SEE NOTES 17,65)

| BREAKER/FUSE (AMPERES) | FLEX CLASS I KS24194 L2 AND STRANDED CLASS B KS24194 L3 | | LUG (TO LOAD) | | LUG (LOAD RETURN) | |
|------------------------------|---|------------|---------------|-----------|-------------------|------------|
| | 8 | 6 | 405348178 | 405348178 | 405348178 | 405348178 |
| TWO POSITION CIRCUIT BREAKER | 8 | WP91412L52 | 405348178 | 405348178 | WP91412L52 | WP91412L52 |
| | 6 | WP91412L3 | 405347519 | 405347519 | WP91412L3 | 405347519 |
| | 4 | WP91412L5 | 405347576 | 405347576 | WP91412L5 | 405347576 |
| | 2 | WP91412L8 | 405347683 | 405347683 | WP91412L8 | 405347683 |

8 AWG TERMINATION LUG KIT
THIS KIT CONTAINS THE FOLLOWING ITEMS

| USED WITH | QTY | DIE | DESCRIPTION |
|-----------|-----|-----|-------------------------------------|
| 1 | 1 | RED | 54204 (T&B) DOUBLE HOLE TERM |
| 1 | 1 | RED | YARCL-NT6 (BURNDY) SINGLE HOLE TERM |
| 2 | 2 | | 8-32 X 5/16 SCREW |
| 1 | 1 | | 6-32 X 5/16 SCREW |
| 2 | 2 | | WP91767 L4 3/8 TUBING 2INCH |

10-12 AWG TERMINATION LUG KIT
THIS KIT CONTAINS THE FOLLOWING ITEMS

| USED WITH | QTY | DIE | DESCRIPTION |
|-----------|-----|----------|---------------------------------|
| 1 | 1 | R-5473-5 | WP91412L73 DOUBLE HOLE TERM |
| 1 | 1 | R-5473-5 | WP91412L93 SINGLE HOLE TERMINAL |
| 2 | 2 | | 8-32 X 5/16 SCREW |
| 1 | 1 | | 6-32 X 5/16 SCREW |
| 2 | 2 | | WP91767 L3 1/4 TUBING 2INCH |

TABLE Y: BATTERY CABLE AND LUG INFORMATION
FOR USE WITH VR SERIES BATTERIES (SEE NOTE 21)

| CABLE INFORMATION | | LUG INFORMATION | | | | | |
|---|------------|-----------------|---------|--------------|-------------------|-----------------|--------------------------------|
| KS24194 L2 FLEX CLASS I & STRANDED CLASS B KS24194 L3 | | WP SPEC | COMCODE | DIE COLOR | COMPRESSION TOOLS | | |
| | | | | | TBM8 DIE NO. | TBM5 DIE NO. | TBM6 UPPER DIE LOWER DIE |
| 1/0 | WP91412L57 | 405348235 | BLACK | 13462 | 13455 | 13474 | 13477 |
| 4/0 | WP91412L27 | 405347923 | YELLOW | 13463 | 13456 | 13473 | 13476 |

TABLE ZA: BATTERY MANAGEMENT SYSTEM
SW100 SETTINGS (I=INITIAL)

| T1 SETPOINT | | | T2,MJT SETPOINT | | |
|-------------|---|---|-----------------|---|---|
| C,F | 1 | 2 | C,F | 3 | 4 |
| 20,68 | 1 | 1 | 40,104 | 1 | 1 |
| 25,77 (I) | 1 | 0 | 45,113 | 1 | 0 |
| 30,86 | 0 | 1 | 50,122 (I) | 0 | 1 |
| 35,95 | 0 | 0 | 55,131 | 0 | 0 |

TABLE ZB: BATTERY MANAGEMENT SYSTEM
SW101 SETTINGS (I=INITIAL)

| MNT SETPOINT | | 23,24 CELL SELECT | | F,C SELECT | |
|--------------|---|-------------------|---------|-------------|---------|
| C,F | 1 | 2 | 3 | 4 | |
| 30,86 | 1 | 1 | 1 | 0 | 1 0 |
| 35,95 (I) | 1 | 0 | 23 CELL | 24 CELL (I) | C F (I) |
| 40,104 | 0 | 1 | | | |
| 45,113 | 0 | 0 | | | |

TABLE ZC: BATTERY MANAGEMENT SYSTEM
SW102 SETTINGS (I=INITIAL)

| CURRENT LIMIT SETPOINT | | | CURRENT LIMIT | |
|------------------------|---|---|---------------|----------------------|
| AMPS | 1 | 2 | 3 | 4 |
| 12.5 | 1 | 1 | 1 | 0 |
| 25 | 1 | 1 | 0 | ENABLED DISABLED (I) |
| 37.5 (I) | 1 | 0 | 1 | |
| 50 | 1 | 0 | 0 | |
| 62.5 | 0 | 1 | 1 | |
| 75 | 0 | 1 | 0 | |
| 87.5 | 0 | 0 | 1 | |
| 100 | 0 | 0 | 0 | |

TABLE ZE: CP2 DIP SWITCH SETTINGS
(0 = OPEN, 1 = CLOSED)

| SW202 | FUNCTION | OPTION | SWITCH SETTING | | |
|-------|----------------------------------|---------------------|----------------|----|----|
| -1 | REMOTE | ENABLED DISABLED | 0 1 | | |
| -2 | SHUNT SIZE | 300A | -2 | -3 | -4 |
| -3 | | | 1 | 0 | 1 |
| -4 | | | | | |
| -5 | -- RESERVED -- | | | | |
| -6 | MAXIMUM NUMBER OF RECTIFIERS | 6 RECTIFIERS | 1 | | |
| -7 | NOMINAL BATTERY PLANT VOLTAGE | -48 VOLTS | 0 | | |
| -8 | LOCAL PORT | TERMINAL PRINTER | 0 1 | | |

TABLE ZL: THERMAL COMPENSATION (SLOPE/STEP)
LOW VOLTAGE DISCONNECT/RECONNECT BOARD (BID1)
SW500 REFERENCE

| THERMAL COMPENSATION VOLTAGE LEVELS | | | | | | |
|-------------------------------------|-----------------|--|--------------------------|------------------|-------------------|-------------------------------|
| CONDITIONS | | 216A STATUS | PLANT VOLTAGE | | | |
| COMPENSATION ENABLE | MARGIN LEVEL | COMPENSATION | TEMPERATURE IN DEGREES C | | | |
| SW500.2 | SW500.4 | | 0-25 | 25-53 | 53-75 | 75+ FROM >75 TO <65 |
| 1 | 0 | ENABLED | V FLT +72MV/C | V FLT -72MV/C | V FLT -2.0 VDC | V FLT -6.0 VDC -2.0 VDC |
| 1 | 1 | ENABLED | NO CHANGE | V FLT -72MV/C | V FLT -2.0 VDC | V FLT -6.0 VDC -2.0 VDC |
| 0 * | 1 * | DISABLED | NO CHANGE | | | |
| 0 | 0 | DISABLED | NO CHANGE | | | |
| LOW VOLTAGE DISCONNECT LEVELS | | | | | | |
| SW500.1 | SW500.3 | DISCONNECT/RECONNECT VOLTAGE LEVELS | | | | |
| 1 * | 1 * | -42.5 VDC | | | | |
| 0 | 0 | -40.5 VDC | | | | |

LINEAGE 2000 ECS BATTERY PLANT

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MATRIX EBOM VERSION
PLANT J85500D3 17

SHEET ISSUE DWG
SIZE

TYCO ELECTRONICS J85500D-3 A7 18 C2

NOTE 1: "V FLT" REPRESENTS UNCOMPENSATED PLANT FLOAT VOLTAGE
NOTE 2: NOTICE "+" OR "-" DETERMINES WHICH DIRECTION THE VOLTAGE COMPENSATES
NOTE 3: "*" REPRESENTS DEFAULT FACTORY SETTINGS (SW500 = 1,0,1,1)
NOTE 4: 0=OPEN, 1=CLOSED

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H

G

F

E

D

C

B

A

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|---|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | |
| H | | | | | | | | | | |
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| B | | | | | | | | | | |
| A | | | | | | | | | | |
| | | | | | | | | | | |

UPDATED ALL LISTS TO LA STATUS. ADDED NOTE 159.
PDI: 00ESDJ0412 CL: ME
GAK SMA 08/08/2000 16

GIVES AUTHORIZATION TO MAKE THE PBOM (SAP) MATCH THE EBOM.
PDI: 00ESDJ0583 CL: ME
GAK SMA 09/09/2000 17

THIS PDI UPDATES THE STATUS OF ALL LISTS AND THE J85500D-3 TO D.A. (DISCONTINUED AVAILABILITY)
PDI: 01ESDJ0233 CL: ME
GAK SMA 04/06/2001 18

SHB4, FIG.4, ADDED: PANEL LOCATION NOTE, ZN-A6. ADDED: DIMS TO LH SIDE. SHC3, ZN-C3&C5, CHGD BUSBAR 846745263 TO REF. RMVD ITMS 132,142,& 152 AND REPLACED WITH REF ITM 900711649. SHC4,RMVD ITM 111 & ADDED, ITMS 108 & 109. SHA4, UPDATED "DLT" TABLE. SHD1, DLT ITEMS 132, 142, 152, & 182. ADDED 108, 109 SHAL, UPDATED SHEET INDEX.
PDI: 97ESDJ1021 CL: ME
RLS KAL 07-25-97 10
GME

SH A1: LIST 9: RM SEISMIC ZONE 4 QUALIFICATION STMT & ADD "SEE NOTES 95,96". ADD REF TO NT 38 & UL & CUL INFO TO LISTS 5 AND 6. SH A2: CHD NT 95 TO INCLUDE LISTS 25, 26, & 27. SH A3: TBL DLT- RM ITMS 15, 17,118,165,166,167,168,170, 171,172,173 & ADD ITMS 19,20 SH B1: ADDED REF TO NT 38 SH D1: REINSTATE ITMS 15,17, 118,165,166,167,168,170, 171,172,173. DLT ITMS 19, 20 ADD L9 TO ITMS 35,113,134, 141,145.
PDI: 97ESDJ1275 CL: ME
OLS KAL 09-07-97 11
GME

SH A1:TBL A, ADD REF TO NT 158 TO ALL LISTS. RMV L9 FRM DESC IN L2,L7,L8,L23. SH A2: ADD NT 158 SH A2: ADD TBL AB SH D1: ITM 180 CHD FRM S-ITM TO *-ITEM.
PDI: 98ESDJ0611 CL: ME
KAL KAL 06-17-98 12
GAS

SH A1:UPDATED SHEET INDEX SH A2, TABLE AB:P/N 107976979 WAS 108976979. ADDED P/N 108333238 & 108332453. SH A3, TABLE J: REV. HEADER TO ADD "SEE TABLE W FOR LUG INFO".
PDI: 98ESDJ0845 CL: ME
PPN OLS 08-21-98 13
GAS

SHA3: ADDED 11 ITEMS TO TBL AB, SHA4: DA'D ITEMS E2, E5, AND E7 FROM TBL B. SHA5: ADDED ITEMS 69 & 109 TO TBL DL. SHC3: 901352617 WAS 900711649. SHC4: ITEM 106: 901352575 WAS ITEM 109: 901015461. SHD1: ADDED ITEM 106. DLT ITEMS 69 AND 109.
PDI: 99ESDJ0591 CL: ME
PPN PPN 08/24/1999 14
GAS

TABLE AB: 108681024 WAS 108344-763, ADDED 108344763.
PDI: 00ESDJ0176 CL: ME
GAK SMA 04/20/2000 15

SH A1: UPDATED SHEET INDEX UPDATED TBL A. ADDED LIST 27, LIST A SH A2: UPDATED MANUF NTS 8,13,37 & ENG NTS 58,67,95 ADDED NTS 156,157 SH A4: UPDATED TBL N,W,Y SH B1: WS "J85702B-1" ALL B SHEETS RMVD CORP LOGO SH C3: ADDED VIEW VV SH D1: ITM 10 WAS J85702B-2 L2 SH F9 & F10: UPDATED ALL F SHEETS RMVD CORP LOGO PDT VER 6.0
PDI: 96ESDJ0505 CL:B
GAS 7/15/96 6
MAJ

SH A1: LIST 9: RM SEISMIC ZONE 4 QUALIFICATION STMT & ADD "SEE NOTES 95,96". ADD REF TO NT 38 & UL & CUL INFO TO LISTS 5 AND 6. SH A2: CHD NT 95 TO INCLUDE LISTS 25, 26, & 27. SH A3: TBL DLT- RM ITMS 15, 17,118,165,166,167,168,170, 171,172,173 & ADD ITMS 19,20 SH B1: ADDED REF TO NT 38 SH D1: REINSTATE ITMS 15,17, 118,165,166,167,168,170, 171,172,173. DLT ITMS 19, 20 ADD L9 TO ITMS 35,113,134, 141,145.
PDI: 97ESDJ1275 CL: ME
OLS KAL 09-07-97 11
GME

SH A1:TBL A, ADD REF TO NT 158 TO ALL LISTS. RMV L9 FRM DESC IN L2,L7,L8,L23. SH A2: ADD NT 158 SH A2: ADD TBL AB SH D1: ITM 180 CHD FRM S-ITM TO *-ITEM.
PDI: 98ESDJ0611 CL: ME
KAL KAL 06-17-98 12
GAS

SH A1:UPDATED SHEET INDEX SH A2, TABLE AB:P/N 107976979 WAS 108976979. ADDED P/N 108333238 & 108332453. SH A3, TABLE J: REV. HEADER TO ADD "SEE TABLE W FOR LUG INFO".
PDI: 98ESDJ0845 CL: ME
PPN OLS 08-21-98 13
GAS

SHA3: ADDED 11 ITEMS TO TBL AB, SHA4: DA'D ITEMS E2, E5, AND E7 FROM TBL B. SHA5: ADDED ITEMS 69 & 109 TO TBL DL. SHC3: 901352617 WAS 900711649. SHC4: ITEM 106: 901352575 WAS ITEM 109: 901015461. SHD1: ADDED ITEM 106. DLT ITEMS 69 AND 109.
PDI: 99ESDJ0591 CL: ME
PPN PPN 08/24/1999 14
GAS

TABLE AB: 108681024 WAS 108344-763, ADDED 108344763.
PDI: 00ESDJ0176 CL: ME
GAK SMA 04/20/2000 15

UPDATED: ALL SHTS, EXCEPT A2,A3,C1,C3,D1,F4 & F5 TO CURRENT DWG FORMAT & ISSUE NUMBER. ADDED: NEW LUCENT LOGO TO RH SIDE OF DIST. ASSY DOORS & CONTROLLER PANELS. MOVED: "LINEAGE 2000" & 847230505 LABEL TO LH SIDE OF DIST. ASSY DOORS. MOVED: "LINEAGE 2000-ECS" TO LEFT OF CONTROLLER PANEL CENTERS. SHTS F9 & F10, WAS: ITEM 220, MOVED: 847268661 LABEL TO OPPOSITE SIDE OF CUTOUT ON CONTROLLER PANEL CENTER.
PDI: 96ESDJ0905 CL: ME
RLS APA 11-12-96 7
GME

ADDED: IN NT 96 "REFER TO TABLE BF FOR BATTERIES PREVIOUSLY ORDERED" ADDED: TABLE BF. CHANGED: BATT CC'S ON ALL SHTS FOR BATT PER KS23619 L1-20 TO NEW CC'S L21-30 SEE (TBL BF) CHANGED COPYRIGHT YEAR ON ALL SHTS
PDI: 97ESDJ0071 CL: ME
AJS RK 01-28-97 8
CEH

ADD:TBL A LINES 6 & 7- ONLY FOR VR BATTERIES, ADD:TBL B ITM G1 & G2-"(TOP SUPPORT REQUIRED)", ADD:IN TBL W & Y-"STRANDED CLASS B KS24194 L3", ADD:IN TBL N, LN 11. CHGD:TBL A LN 26 FROM NT 37 TO NT 38, AND "DA" CHGD:NT 98 FROM "24 OR 26" TO "25 OR 26" RMVD:NT 42 AFTER NT 157 AND UPDATED NT 157. RMVD:NT 38. DLT: ITMS 15, 17, 118, 165, 166, 167, 168, 170, 171, 172, 173
UPDATED TABLE DLT RMVD LST 9 FROM ITMS 35, 113, 134, 141, 145 ADD: ITMS 19 & 20
PDI: 97ESDJ0496 CL: ME
KAL KAL 05-07-97 9
GME

SHAL: UPD ST INX, NT 27. SHA2: UPDATED TBL DLT, NT 151 WAS 101, ADDED NT 155
UPDATED TABLE B SHA3: UPDATED TABLES K & N. SHB1: ITM 114 WAS 112. SHB1,B2,B3,B4,F1: ADDED 3 IT 39 BRACKETS & REAR COVER. SHC1,C3,C5: REPLACED CABLES 846448595 & 846314128 WITH 847731783, AND 846448603 & 846314136 WITH 847731809. SHC3: RPL RECT SHF J85702B-1 WITH J85702B-2 IN VIEW V-V. RPL SECT R-R & FIG TT WITH A NEW FIG TT. SH D1: DLT ITMS 7,30,31,66, LST 2 OF 112, & 169. ADDED ITMS 10,55,75,114,132, 152,173. IT 28 WAS 846314128, IT 29 WAS 846314136, IT 39 QTY WAS 5, IT 143 QTY WAS 6.
PDI: 96ESDJ0143 CL: ME
BLS GAS 3-18-96 5

SH A1: UPDATED SHEET INDEX ADD LIST 25 & 26 TO TABLE A. UPDATED NOTE 8 TO INCLUDE THE BID1 CKT PACK. UPDATED NOTE 16 TO INCLUDE LIST 25 AND 26. SH A2: UPDATED NOTES 78 AND 80 TO INCLUDE LIST 25 & 26. ADD NOTES 98 - 103. ADD ITEMS E11 - E14 TO TABLE B. SH A3: ADD BID1, CU216A AND TBA TO TABLE T. SH A4: NEW PAGE SH B1: ADD ITEMS 177 & 178 TO FIGURE 1. SH C5: ADD LIST 25 & 26. ADD SECTION P1-P1. SH D1: ADD ITEMS 177, 178, 180, AND 210 - 221. ADD LIST 25 & 26 TO ITEMS 91, 112, 117, 121, 133, 141 AND 151. SH F1: ADD CU 216A AND THERMISTORS TO BATTERY STAND IN FRONT VIEW. SH F3: ADD LIST 25 & 26 TO PAGE HEADER. SH F4: ADD FIG. D. SH F5: ADD FIG. M SH F9: ADD CU216A TO FIG. KK SH F10: ADD CU216A TO FIG LL SH G1: CHANGED DESCRIPTION IN FLOOR LOAD AREA TABLE THIRD COLUMN TO EXCLUDING ASILE FROM INCLUDING ASILE.
PDI: 95ESDJ0979 CL: B
AEM DRM 12/18/95 4
GME

SHAL: UPD ST INX, NT 27. SHA2: UPDATED TBL DLT, NT 151 WAS 101, ADDED NT 155
UPDATED TABLE B SHA3: UPDATED TABLES K & N. SHB1: ITM 114 WAS 112. SHB1,B2,B3,B4,F1: ADDED 3 IT 39 BRACKETS & REAR COVER. SHC1,C3,C5: REPLACED CABLES 846448595 & 846314128 WITH 847731783, AND 846448603 & 846314136 WITH 847731809. SHC3: RPL RECT SHF J85702B-1 WITH J85702B-2 IN VIEW V-V. RPL SECT R-R & FIG TT WITH A NEW FIG TT. SH D1: DLT ITMS 7,30,31,66, LST 2 OF 112, & 169. ADDED ITMS 10,55,75,114,132, 152,173. IT 28 WAS 846314128, IT 29 WAS 846314136, IT 39 QTY WAS 5, IT 143 QTY WAS 6.
PDI: 96ESDJ0143 CL: ME
BLS GAS 3-18-96 5

SHAL: UPD ST INX, NT 27. SHA2: UPDATED TBL DLT, NT 151 WAS 101, ADDED NT 155
UPDATED TABLE B SHA3: UPDATED TABLES K & N. SHB1: ITM 114 WAS 112. SHB1,B2,B3,B4,F1: ADDED 3 IT 39 BRACKETS & REAR COVER. SHC1,C3,C5: REPLACED CABLES 846448595 & 846314128 WITH 847731783, AND 846448603 & 846314136 WITH 847731809. SHC3: RPL RECT SHF J85702B-1 WITH J85702B-2 IN VIEW V-V. RPL SECT R-R & FIG TT WITH A NEW FIG TT. SH D1: DLT ITMS 7,30,31,66, LST 2 OF 112, & 169. ADDED ITMS 10,55,75,114,132, 152,173. IT 28 WAS 846314128, IT 29 WAS 846314136, IT 39 QTY WAS 5, IT 143 QTY WAS 6.
PDI: 96ESDJ0143 CL: ME
BLS GAS 3-18-96 5

SHAL: UPD ST INX, NT 27. SHA2: UPDATED TBL DLT, NT 151 WAS 101, ADDED NT 155
UPDATED TABLE B SHA3: UPDATED TABLES K & N. SHB1: ITM 114 WAS 112. SHB1,B2,B3,B4,F1: ADDED 3 IT 39 BRACKETS & REAR COVER. SHC1,C3,C5: REPLACED CABLES 846448595 & 846314128 WITH 847731783, AND 846448603 & 846314136 WITH 847731809. SHC3: RPL RECT SHF J85702B-1 WITH J85702B-2 IN VIEW V-V. RPL SECT R-R & FIG TT WITH A NEW FIG TT. SH D1: DLT ITMS 7,30,31,66, LST 2 OF 112, & 169. ADDED ITMS 10,55,75,114,132, 152,173. IT 28 WAS 846314128, IT 29 WAS 846314136, IT 39 QTY WAS 5, IT 143 QTY WAS 6.
PDI: 96ESDJ0143 CL: ME
BLS GAS 3-18-96 5

SHAL: UPD ST INX, NT 27. SHA2: UPDATED TBL DLT, NT 151 WAS 101, ADDED NT 155
UPDATED TABLE B SHA3: UPDATED TABLES K & N. SHB1: ITM 114 WAS 112. SHB1,B2,B3,B4,F1: ADDED 3 IT 39 BRACKETS & REAR COVER. SHC1,C3,C5: REPLACED CABLES 846448595 & 846314128 WITH 847731783, AND 846448603 & 846314136 WITH 847731809. SHC3: RPL RECT SHF J85702B-1 WITH J85702B-2 IN VIEW V-V. RPL SECT R-R & FIG TT WITH A NEW FIG TT. SH D1: DLT ITMS 7,30,31,66, LST 2 OF 112, & 169. ADDED ITMS 10,55,75,114,132, 152,173. IT 28 WAS 846314128, IT 29 WAS 846314136, IT 39 QTY WAS 5, IT 143 QTY WAS 6.
PDI: 96ESDJ0143 CL: ME
BLS GAS 3-18-96 5

SHAL: UPD ST INX, NT 27. SHA2: UPDATED TBL DLT, NT 151 WAS 101, ADDED NT 155
UPDATED TABLE B SHA3: UPDATED TABLES K & N. SHB1: ITM 114 WAS 112. SHB1,B2,B3,B4,F1: ADDED 3 IT 39 BRACKETS & REAR COVER. SHC1,C3,C5: REPLACED CABLES 846448595 & 846314128 WITH 847731783, AND 846448603 & 846314136 WITH 847731809. SHC3: RPL RECT SHF J85702B-1 WITH J85702B-2 IN VIEW V-V. RPL SECT R-R & FIG TT WITH A NEW FIG TT. SH D1: DLT ITMS 7,30,31,66, LST 2 OF 112, & 169. ADDED ITMS 10,55,75,114,132, 152,173. IT 28 WAS 846314128, IT 29 WAS 846314136, IT 39 QTY WAS 5, IT 143 QTY WAS 6.
PDI: 96ESDJ0143 CL: ME
BLS GAS 3-18-96 5

SHAL: UPD ST INX, NT 27. SHA2: UPDATED TBL DLT, NT 151 WAS 101, ADDED NT 155
UPDATED TABLE B SHA3: UPDATED TABLES K & N. SHB1: ITM 114 WAS 112. SHB1,B2,B3,B4,F1: ADDED 3 IT 39 BRACKETS & REAR COVER. SHC1,C3,C5: REPLACED CABLES 846448595 & 846314128 WITH 847731783, AND 846448603 & 846314136 WITH 847731809. SHC3: RPL RECT SHF J85702B-1 WITH J85702B-2 IN VIEW V-V. RPL SECT R-R & FIG TT WITH A NEW FIG TT. SH D1: DLT ITMS 7,30,31,66, LST 2 OF 112, & 169. ADDED ITMS 10,55,75,114,132, 152,173. IT 28 WAS 846314128, IT 29 WAS 846314136, IT 39 QTY WAS 5, IT 143 QTY WAS 6.
PDI: 96ESDJ0143 CL: ME
BLS GAS 3-18-96 5

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|--|--|-----------|----------|-------|
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| MATRIX EBOM VERSION | | | SHEET | ISSUE |
| PLANT J85500D3 17 | | | | |
| TYCO ELECTRONICS | | J85500D-3 | A8 | 18 |
| | | | DWG SIZE | C2 |

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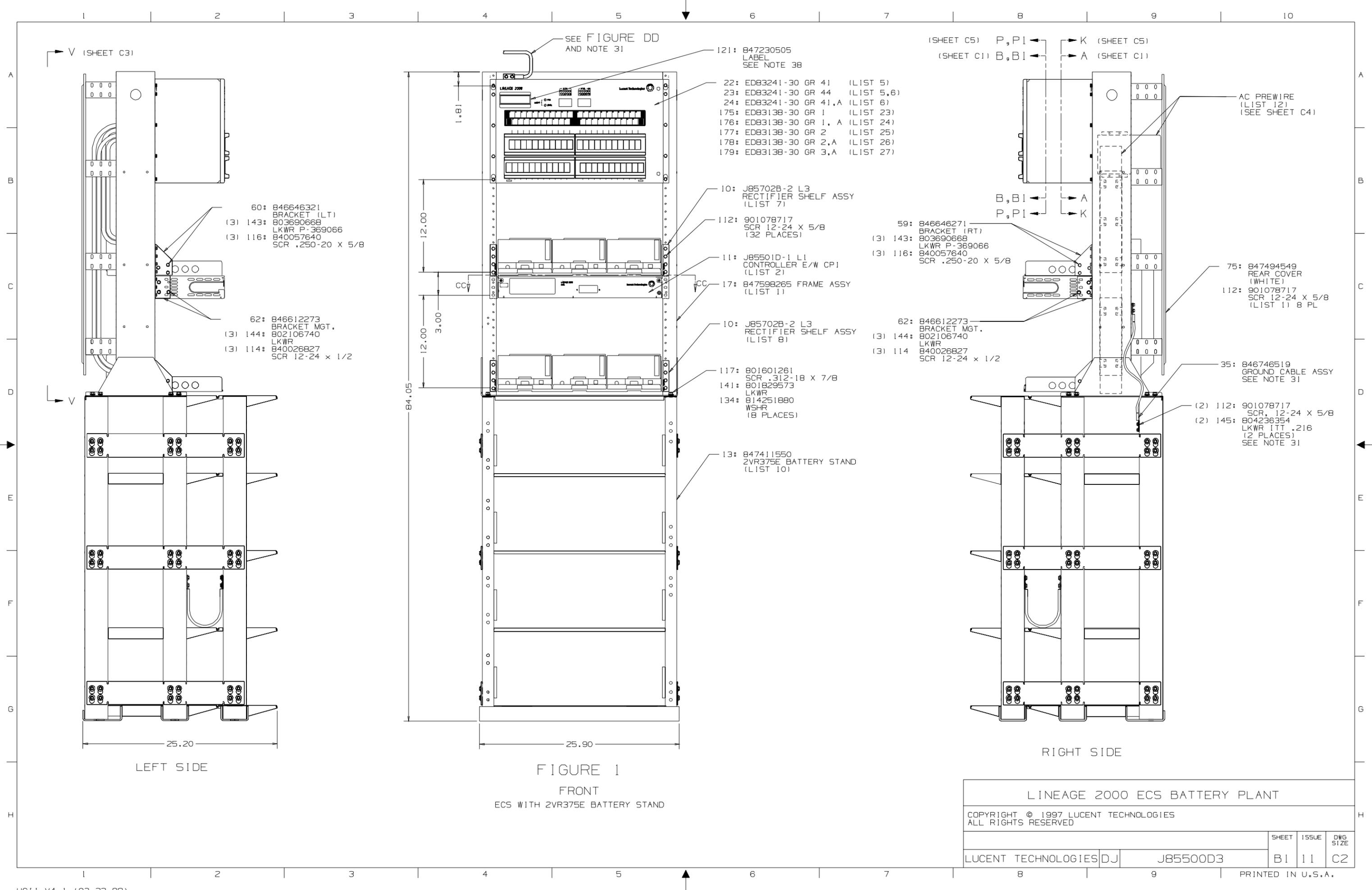
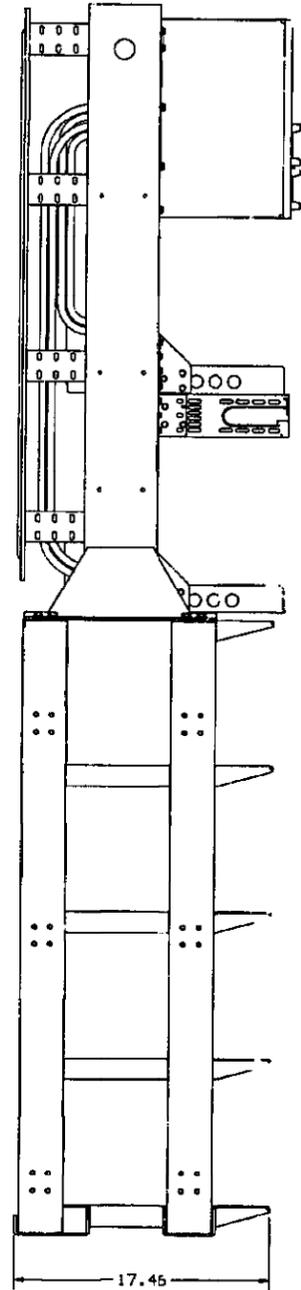


FIGURE 1
 FRONT
 ECS WITH 2VR375E BATTERY STAND

| | | | | |
|---|----|----------|-------|-------|
| LINEAGE 2000 ECS BATTERY PLANT | | | | |
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| LUCENT TECHNOLOGIES | DJ | J85500D3 | B1 11 | C2 |
| | | | SHEET | ISSUE |
| | | | DWG | SIZE |



LEFT SIDE

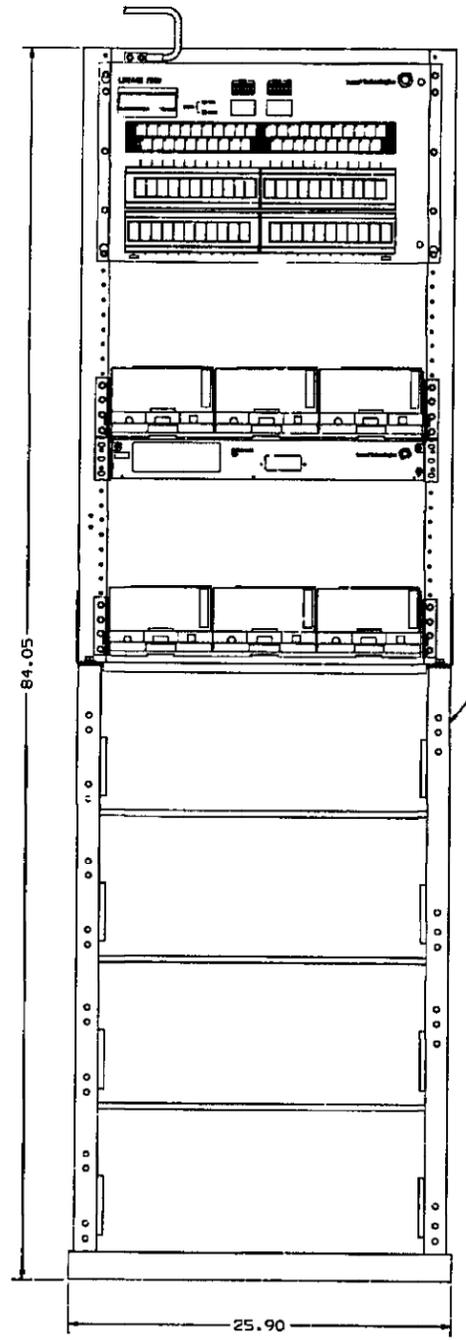
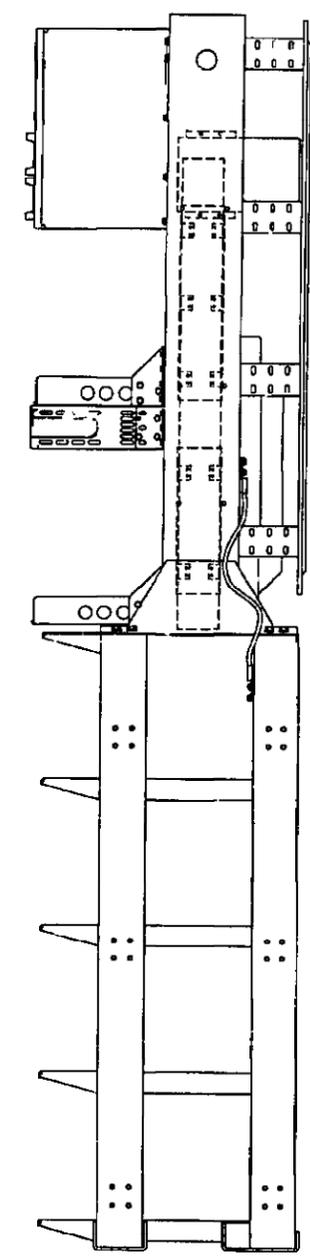


FIGURE 2
FRONT
ECS WITH 2VR250 BATTERY STAND
(SAME AS FIGURE 1 EXCEPT AS SHOWN)

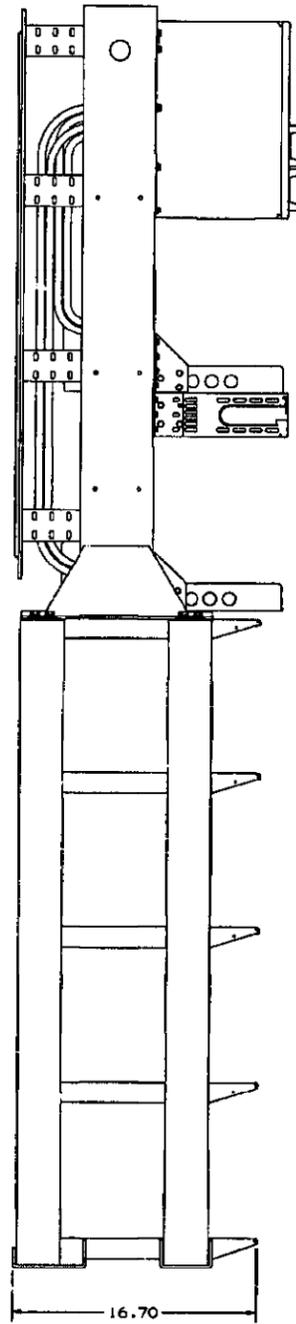
16: 847411543
2VR250 BATTERY STAND
(LIST 11)



RIGHT SIDE

OFFICIAL
MAY 07 1997
RED ORIGINAL

| | | |
|---|-------|----------|
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| LUCENT TECHNOLOGIES | DJ | J85500D3 |
| SHEET | ISSUE | DWG SIZE |
| B2 | 8 | C2 |



LEFT SIDE

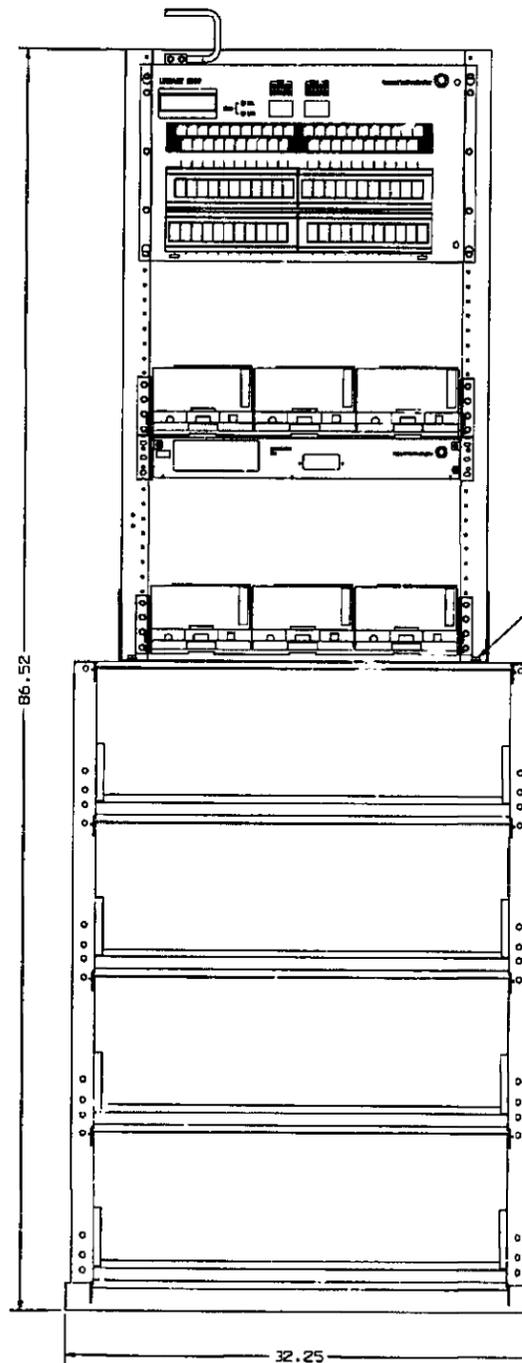
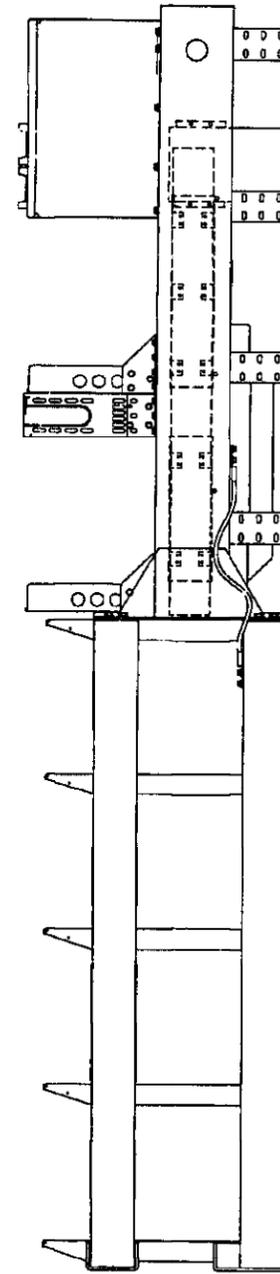


FIGURE 3
FRONT
ECS WITH 121R125 BATTERY STAND
(SAME AS FIGURE 1 EXCEPT AS SHOWN)

- 118: 801703968
SCR, HHC .312-18 X .75
- 14: 801829573
LKWR .312
- 134: 814251880
WSHR, FLT .312
(8 PLACES)
- 15: 847539186
121R125 BATTERY STAND
(LIST 9)

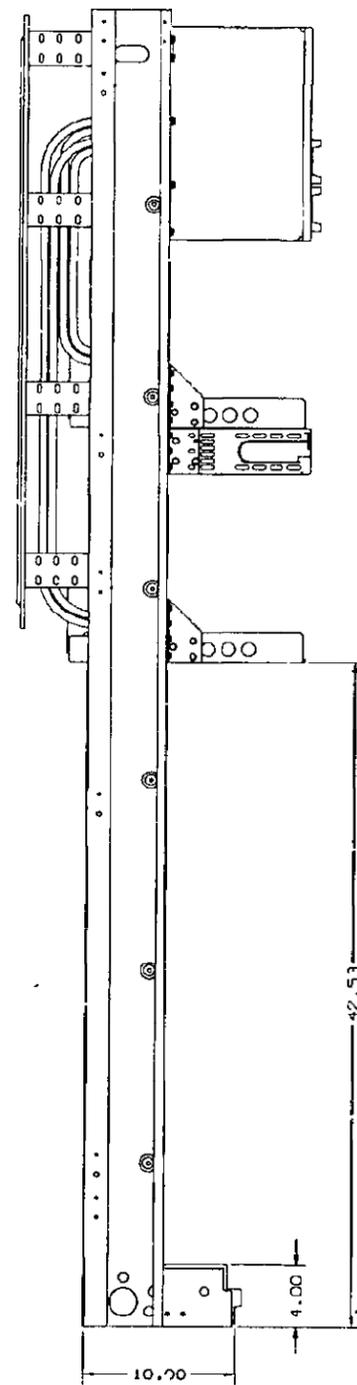


RIGHT SIDE

OFFICIAL
MAY 07 1997
RED OVAL

| | | |
|---|----------|---------------------------------|
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LEFT SIDE

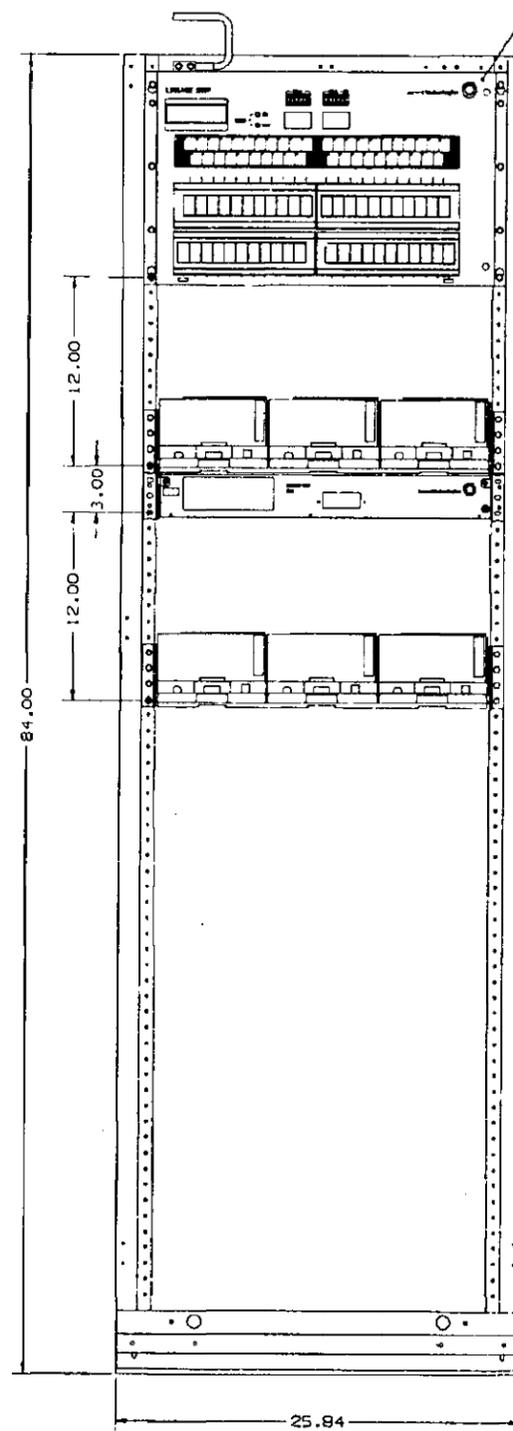
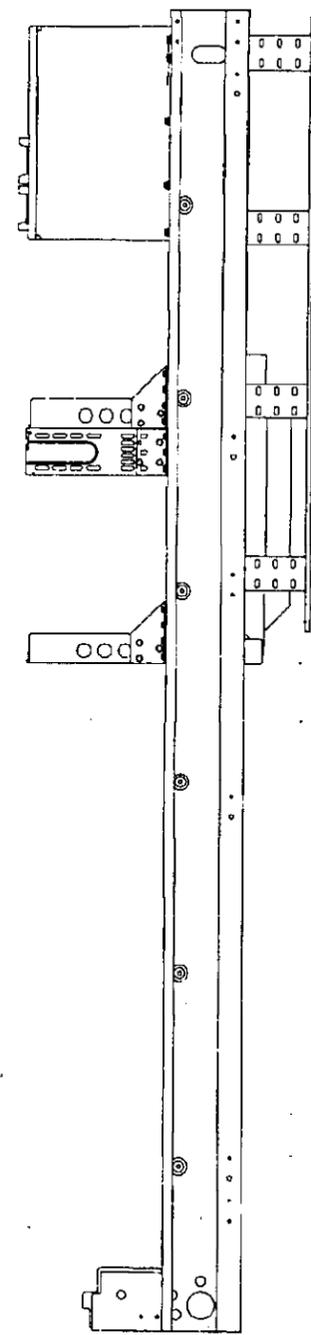


FIGURE 4
FRONT
ECS IN 7ft. FRAMEWORK
(SAME AS FIGURE 1 EXCEPT AS SHOWN)

THIS DISTRIBUTION PANEL
TO BE MOUNTED USING TOP
HOLE OF FRAMEWORK
(NOT AS SHOWN)

1B: 601 398167
ED8C800-50 65
(LIST 15)

ICC OFFICIAL
AUG 07 1997
RED ORIGINAL



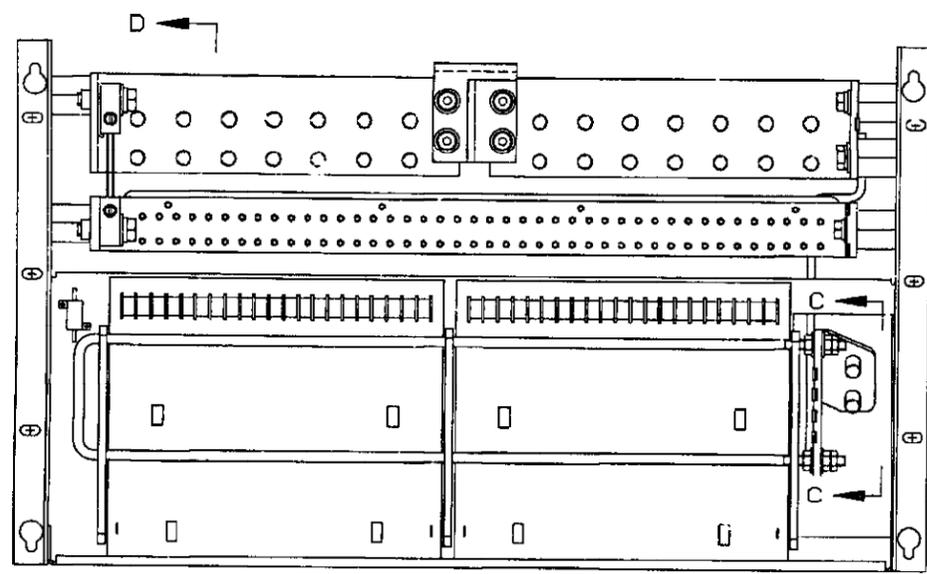
RIGHT SIDE

| | | |
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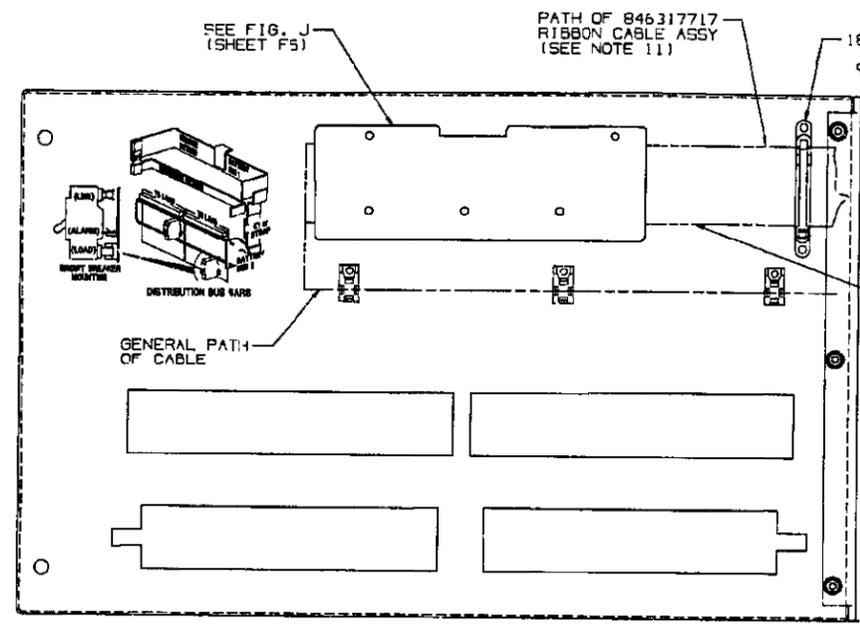
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J85500D3-04

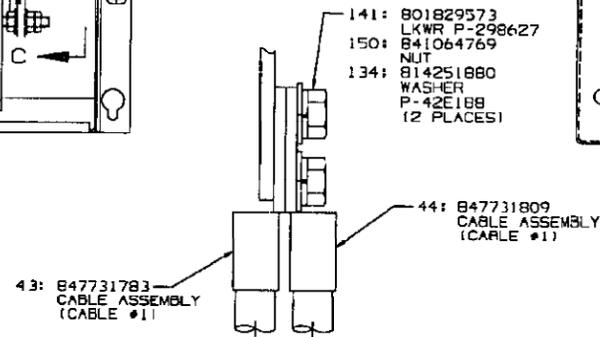
LIST 5 & 6
DISTRIBUTION
FIGURES



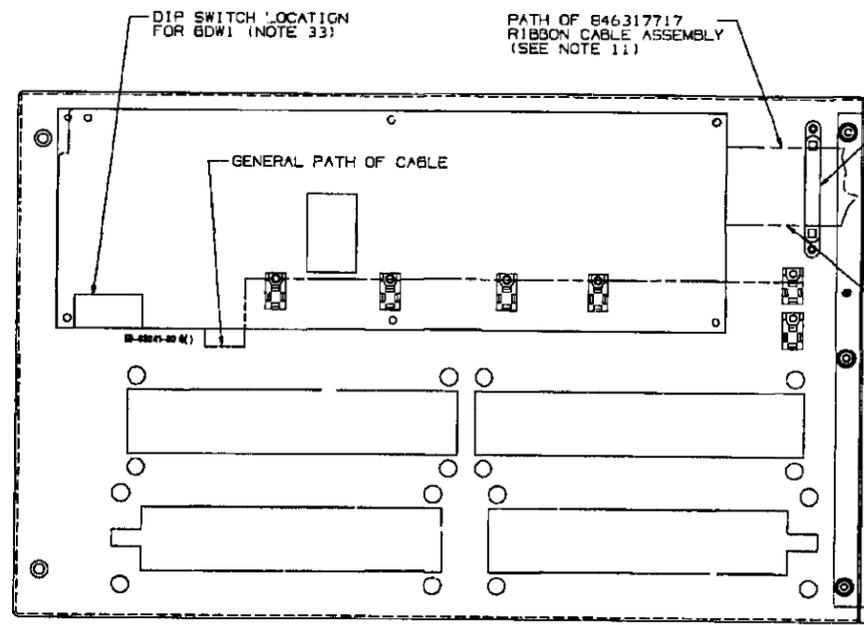
SECT. A-A
SCALE: 1/2
(FRONT VIEW OF DC DISTRIBUTION ASSEMBLY
WITH DOOR REMOVED)



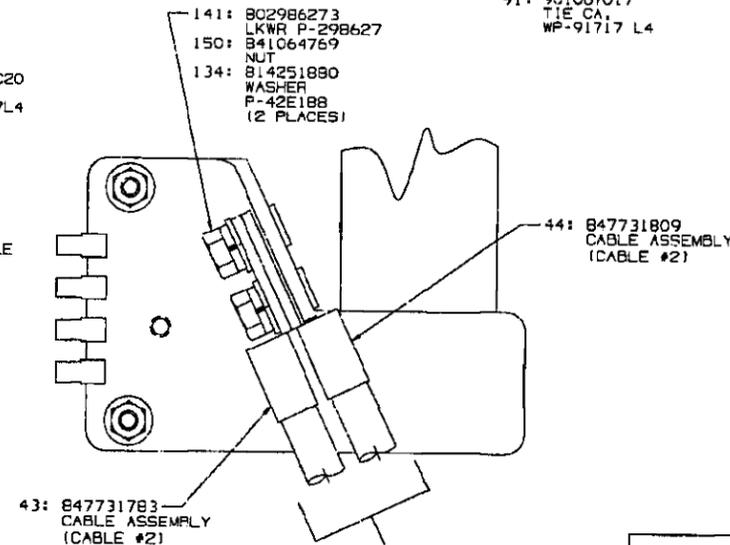
SECT. B-B
(REAR VIEW OF LIST 3 OR 4
DC DISTRIBUTION ASSEMBLY DOOR)
SCALE: 1/2



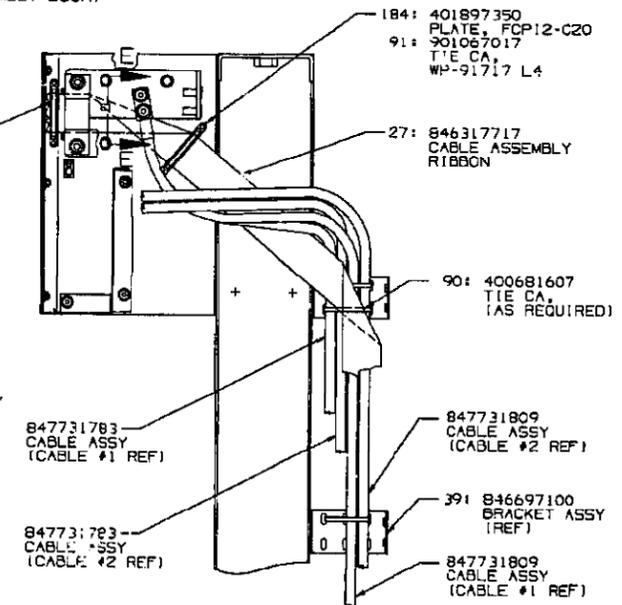
SECT. E-E
SCALE: 1/1



SECT. B1-B1
(REAR VIEW OF LIST 5 OR 6
DC DISTRIBUTION ASSEMBLY DOOR)



SECT. C-C
SCALE: 1/1



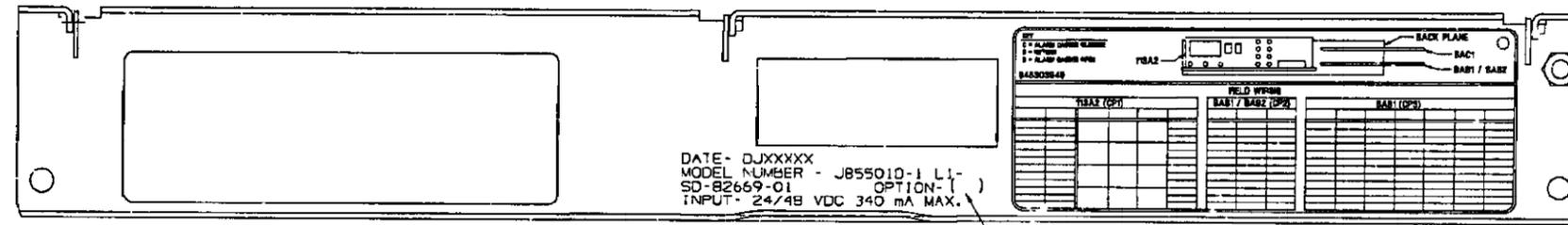
SECT. D-D
SCALE: 1/4

| | | |
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| LUCENT TECHNOLOGIES | DJ | J85500D3 |
| SHEET | ISSUE | DWG SIZE |
| C1 | 8 | C2 |

DO NOT
MAY 17 1997
RED

2-26-97 - 11103 - AJS
J85500D3-cl-c4

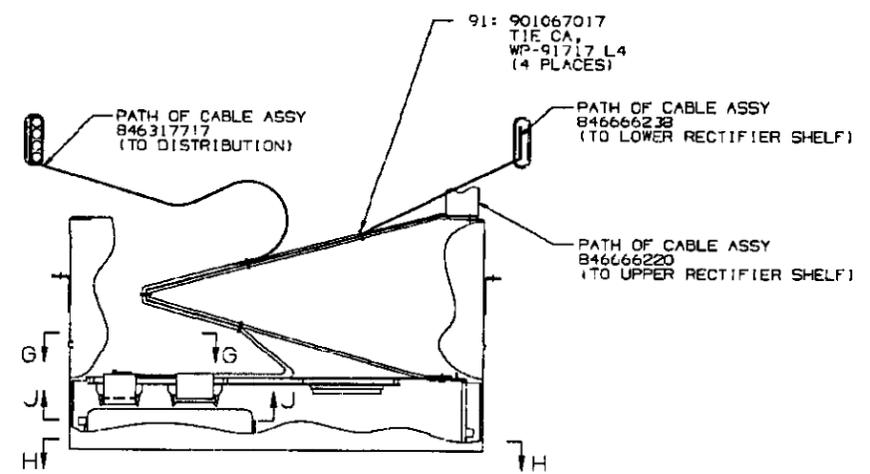
LIST 2
CONTROLLER
FIGURES



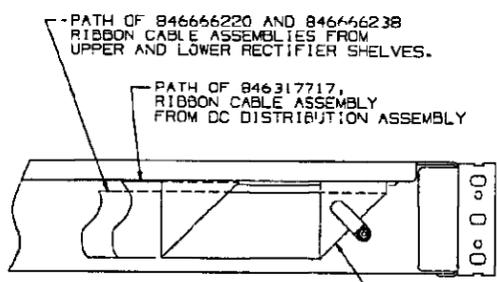
DATE - DJXXXXX
MODEL NUMBER - J855010-1 L1-
SD-82669-01 OPTION-1
INPUT - 24/48 VDC 340 mA MAX.

STAMP OR LABEL 1/8"
LETTER "Z" HERE

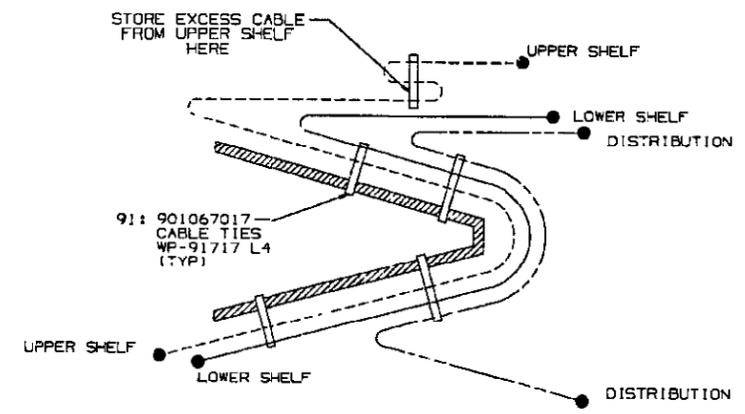
SECT. H-H
(REAR VIEW OF CONTROLLER
ASSEMBLY DOOR)
SCALE: 1/1



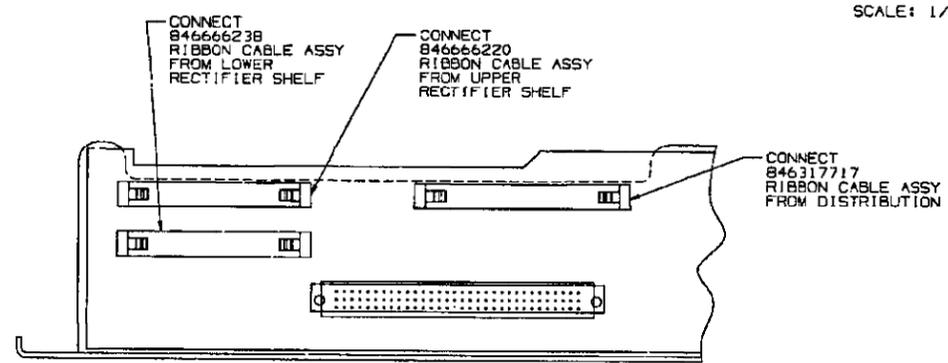
SECT. CC-CC
(TOP VIEW OF J855010-1 L1)
(TRAY SHOWN IN OPEN POSITION)
SCALE: 1/4



SECT. G-G
SCALE: 1/2



VIEW S-S
(REAR VIEW OF CONTROLLER CABLE FOLD)
SCALE: NONE



SECT. F-F
SCALE: 1/2

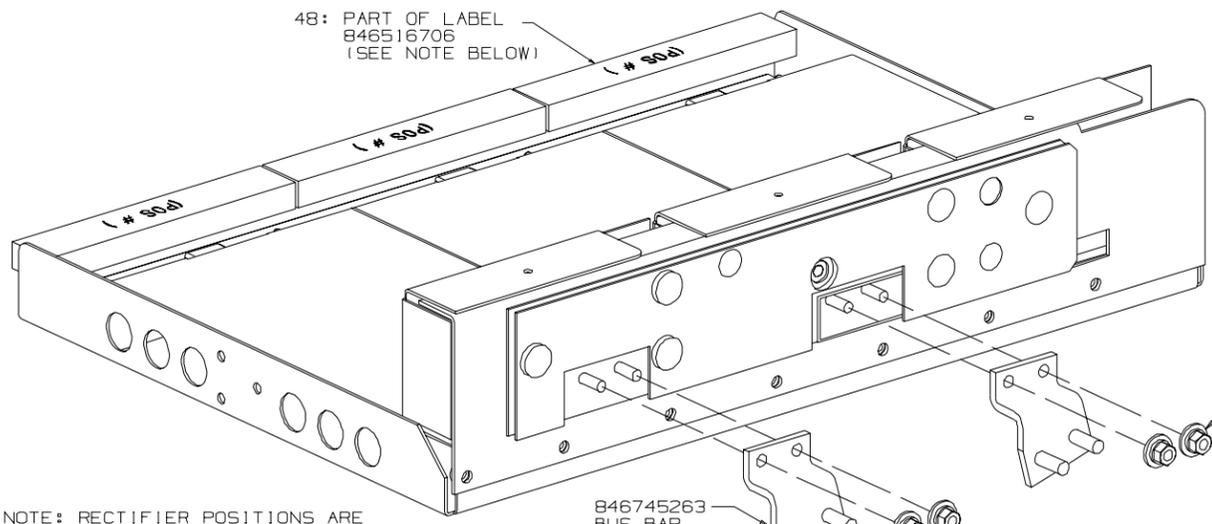
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2-26-97 - 11103 - AJS
J855003-cl-c4

48: PART OF LABEL
846516706
(SEE NOTE BELOW)

RECTIFIER SHELF & FRAMEWORK FIGURES



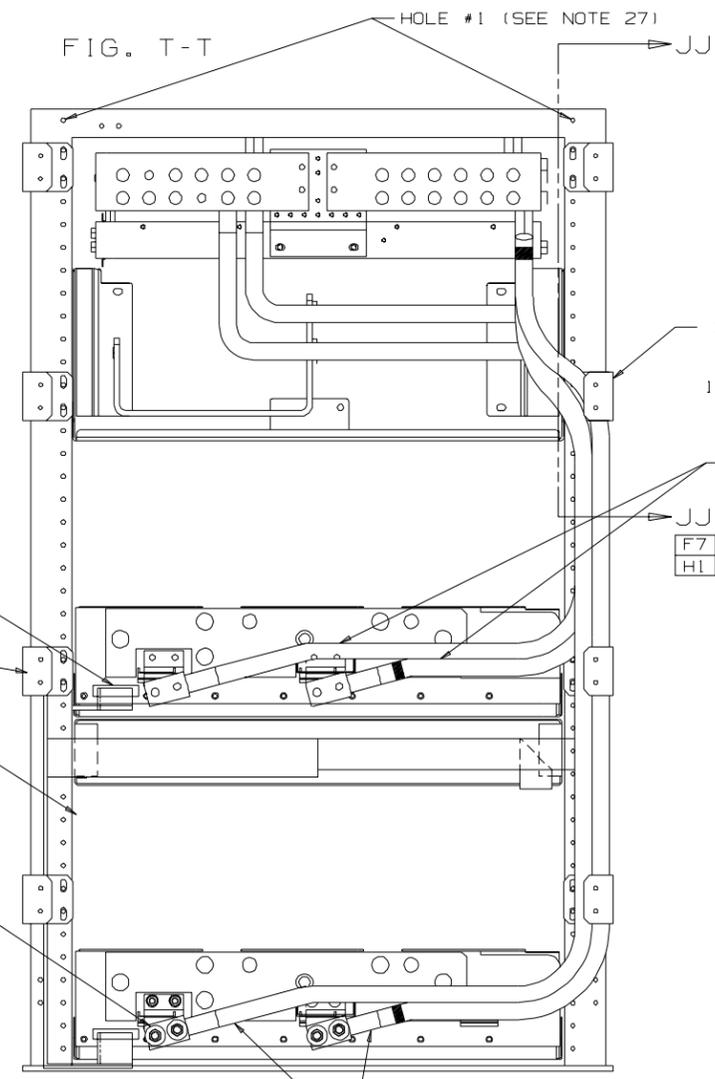
846745263
BUS BAR
(2 PLACES)
(REF)

901352617
NUT, 1/4-20 E/W WSHR
(4 PLACES)
(REF)

NOTE: PART OF JB5702B-2 L3

NOTE: RECTIFIER POSITIONS ARE
NUMBERED RIGHT TO LEFT
1 THRU 3 TOP SHELF;
4 THRU 6 BOTTOM SHELF.
LOCATE LABELS AS SHOWN
TO IDENTIFY RECTIFIER
POSITIONS.

FIG. T-T



39: 846697100
BRACKET
(SEE NOTE 27)

112: 901078717
SCR, HHSWT
12-24 X 5/8
(2 PLACES)

CABLE ASSY
(847731783)

PATH OF CABLE
ASSY 84666220
(TO UPPER RECT
SHELF)

90: 400681607
CABLE TIE
(REF)

PATH OF CABLE
ASSY 84666238
(TO LOWER RECT
SHELF)

150: 841064769
NUT, .312-18
141: 801828573
LKW, .312
134: 814251880
WSHR, .312
TORQUE TO
135 IN-LBS
(8 PLACES)

VIEW V-V
SCALE: 1/4
(FOR LIST 27 ONLY)
REAR COVER REMOVED

CABLE ASSY
(847731809)

PATH OF CABLE
ASSY 84666220
(TO UPPER RECT
SHELF)

90: 400681607
CABLE TIE
(REF)

PATH OF CABLE
ASSY 84666238
(TO LOWER RECT
SHELF)

150: 841064769
NUT, .312-18
141: 801828573
LKW, .312
134: 814251880
WSHR, .312
TORQUE TO
135 IN-LBS
(8 PLACES)

VIEW V-V
SCALE: 1/4
REAR COVER REMOVED

844218602
GROUND CONNECTION ASSY
(FURNISHED WITH LIST 15 FRAMEWORK)
(SEE NOTE 3) FOR LIST 1 FRAME)

(2) 112: 901078717
SCR, HHSWT
12-24 X 5/8
(2) 145: 804236354
LKWR ITT .216

FIG. DD
(GROUND CONNECTION)

17: 847598265
FRAME ASSEMBLY (LIST 1)
OR
15: 601398167
FRAMEWORK (LIST 15)

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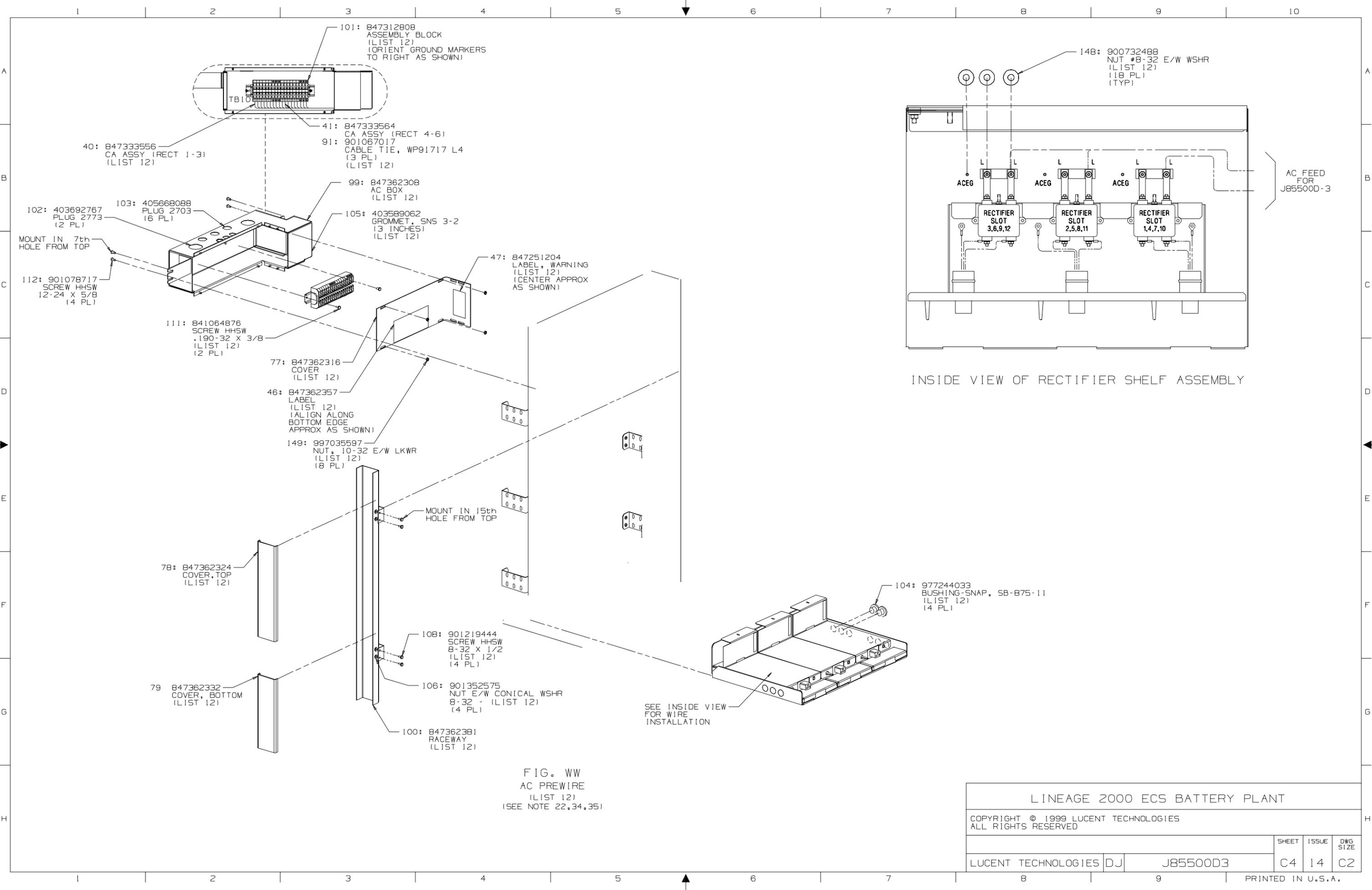


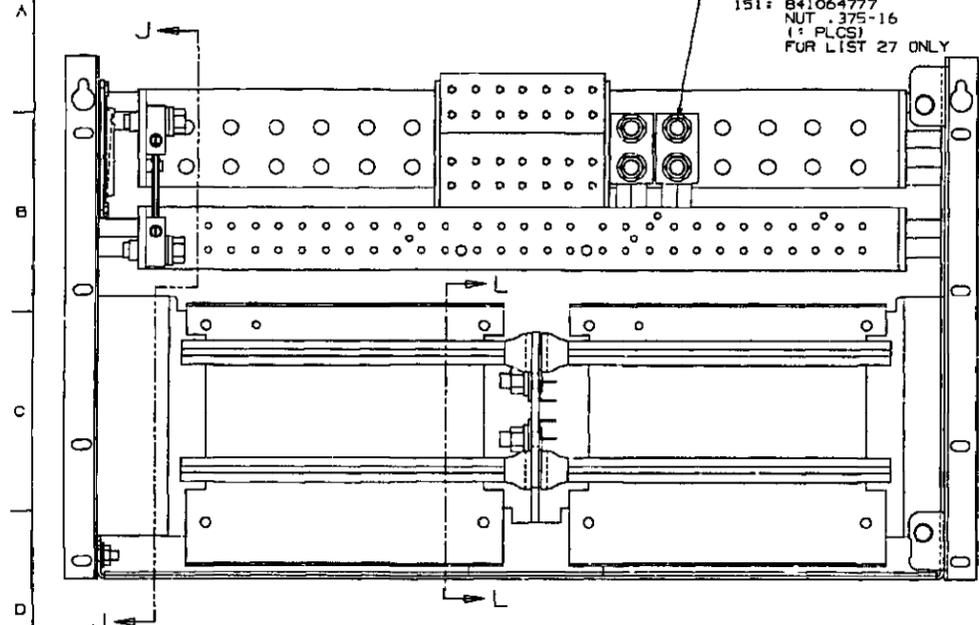
FIG. WW
AC PREWIRE
(LIST 12)
(SEE NOTE 22,34,35)

INSIDE VIEW OF RECTIFIER SHELF ASSEMBLY

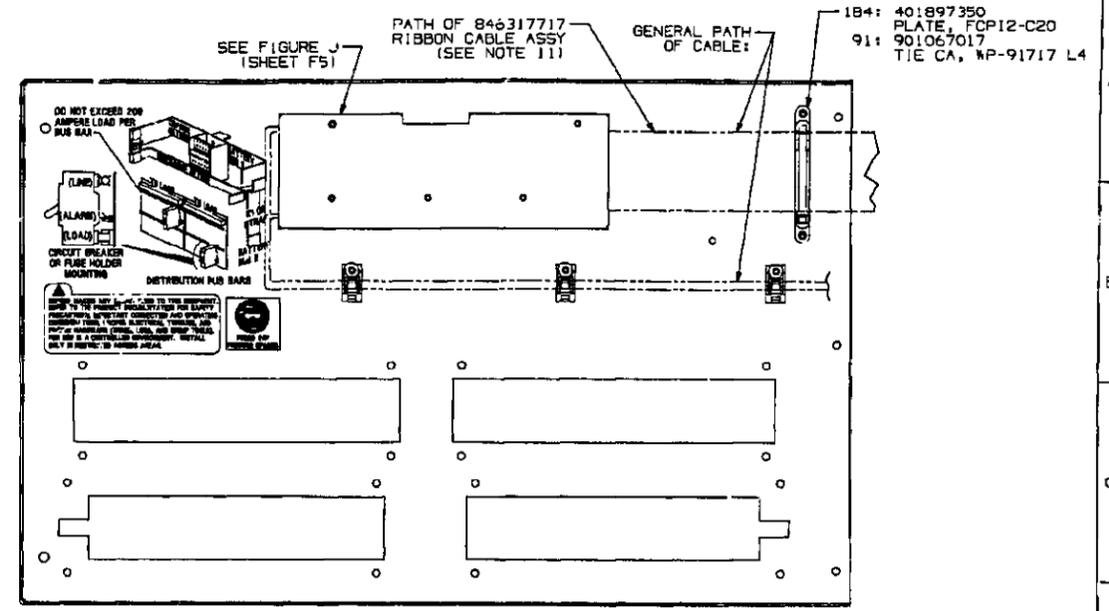
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| | | | SHEET | DWG |
| | | | ISSUE | SIZE |
| | | | C4 | 14 |
| | | | C2 | |

LIST 23, 24, 25, 26 & 27
DISTRIBUTION FIGURES

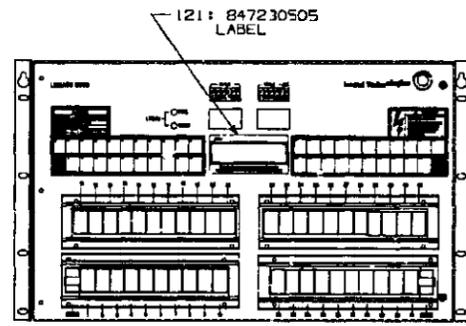
- 133: 814251898
WSHR .375
- 140: 801829607
LKWR .375
- 151: 841064777
NUT .375-16
(4 PLCS)
FOR LIST 27 ONLY



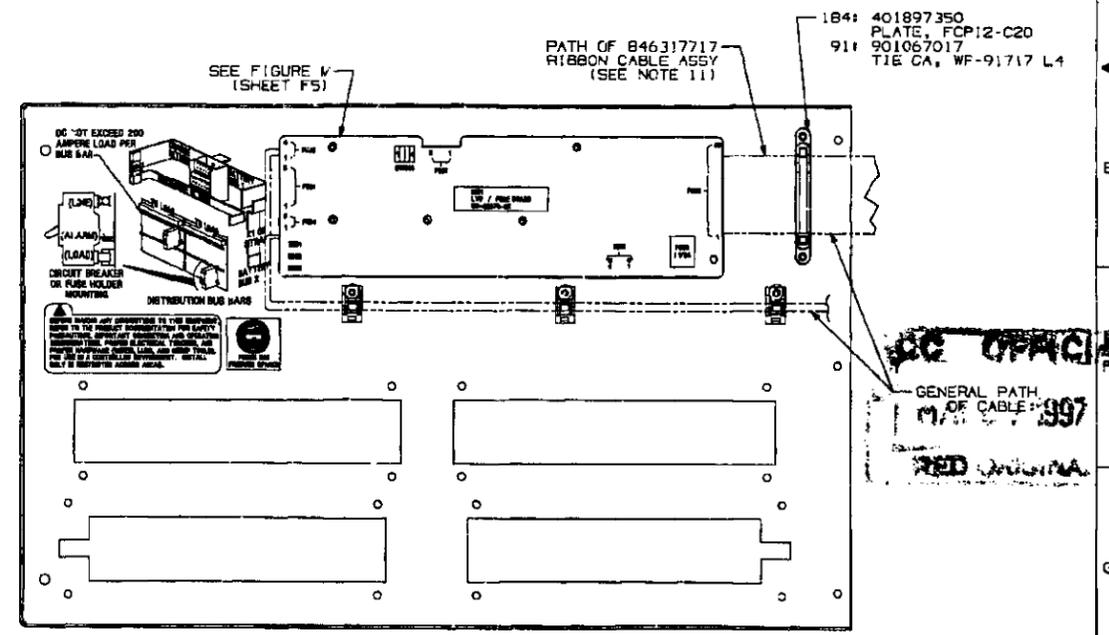
SECTION K-K
(FRONT VIEW OF DISTRIBUTION ASSEMBLY
WITH DOOR & CIRCUIT BREAKERS REMOVED)



SECTION P-P
(REAR VIEW OF LIST 23 OR 24 OR 27
DC DISTRIBUTION ASSEMBLY DOOR)

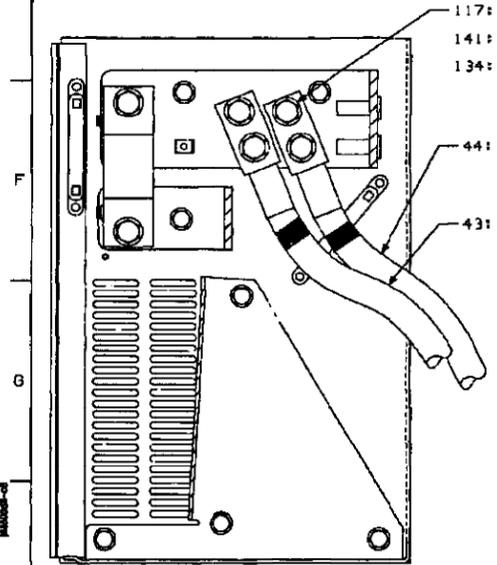


FRONT VIEW OF LIST 23, 24, 25, 26 OR 27
DC DISTRIBUTION ASSEMBLY DOOR

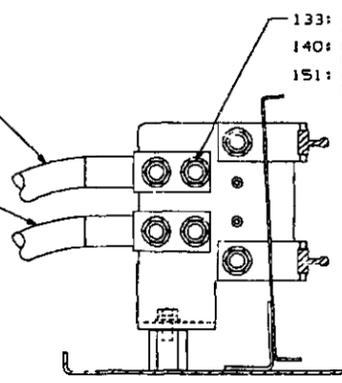


SECTION P1-P1
(REAR VIEW OF LIST 25 OR 26
DC DISTRIBUTION ASSEMBLY DOOR)

- 117: 801601261
SCR .312-18 X 7/8"
- 141: 801829573
LKWR .312
- 134: 814251898
WSHR .312
(4 PLACES)
(SEE NOTE 24)
- 44: 847731809
CABLE ASSEMBLY
(CABLE #1)
- 43: 847731783
CABLE ASSEMBLY
(CABLE #1)
- 43: 847731783
CABLE ASSEMBLY
(CABLE #2)
- 44: 847731809
CABLE ASSEMBLY
(CABLE #2)
- 133: 814251898
WSHR .375
- 140: 801829607
LKWR .375
- 151: 841064777
NUT .375-16
(4 PLACES)
(SEE NOTE 24)
(LIST 23, 24, 25, 26, ONLY)



SECTION J-J



SECTION L-L

LINEAGE 2000 ECS BATTERY PLANT

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| SHEET | ISSUE | DWG SIZE |
|------------------------|----------|-------------|
| LUCENT TECHNOLOGIES DJ | J85500D3 | C5 8 C2 |

DC OFFICIAL
GENERAL PATH
OF CABLE: 397
RED LINE

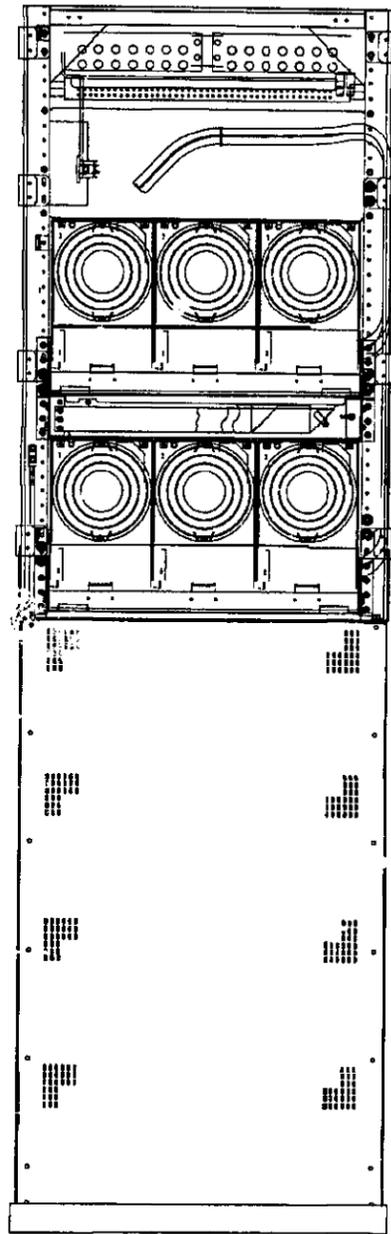
| STOCKLIST | | | | | | | | |
|-----------|------|--------------|--------------------|-----------|---|---------------------------------------|------|----------|
| A | B | C | | E | F | G | H | |
| ITEM | LIST | QTY/ LIST | IDENTIFICATION NO. | | DESCRIPTION | REF | NOTE | |
| | | | COMCODE | DRAWING | | | SYM | NO |
| A | 1 | 10,11 | 2 | 846808772 | BATTERY RETAINER ASSY | | | |
| | 2 | 10,11 | 2 | 846808780 | BATTERY RETAINER ASSY | | | |
| | 3 | DLT | | 846808798 | COVER, BATTERY | DLT | 6 | |
| | 6 | DLT | | 601782394 | J85702B-1 L8 | RECTIFIER SHELF ASSY | DLT | 6 |
| | 7 | DLT | | 601336902 | J85702B-1 L3 | RECTIFIER SHELF ASSY | DLT | 6 |
| | 8 | DLT | | 601255292 | ED-83241-30-G1 | DC DISTRIBUTION ASSY | DLT | 6 |
| | 9 | DLT | | 601313315 | "ED-83241-30-G1,A" | DC DISTRIBUTION ASSY E/W LVD | DLT | 6 |
| B | 10 | 7,8 | 1 | 601799232 | RECTIFIER SHELF ASSY | | | 32 76 |
| | 11 | 2 | 1 | 601255300 | J85501D-1L1 | CONTROLLER E/W CP1 | | |
| | 12 | DLT | | 846806628 | FRAME ASSEMBLY | DLT | 6 | |
| | 13 | 10 | 1 | 847411550 | TWO PIECE BATTERY STAND, 4 SHELF FOR 2VR375E TYPE BATTERY | | | |
| C | 15 | 9 | 1 | 847539186 | BATTERY STAND, 12IR125 | | | |
| | 16 | 11 | 1 | 847411543 | BATTERY STAND, 4 SHELF FOR 2VR250E TYPE BATTERY | | | |
| | 17 | 1 | 1 | 847598265 | FRAME ASSEMBLY | | | |
| | 18 | 15 | 1 | 601398167 | ED-8C800-50 G5 | FRAMEWORK | | |
| | 19 | DLT | | 601837305 | J8550DD-1 L14 | BATTERY STAND ASSEMBLY | DLT | 6 |
| | 20 | DLT | | 601837321 | J8550DD-1 L21 | FRAMEWORK ASSEMBLY, 42 INCHES HIGH | DLT | 6 |
| D | 22 | 5 | 1 | 601413941 | ED-83241-30G41 | DC DISTRIBUTION ASSY | | |
| | 23 | 5,6 | 1 | 601413974 | ED-83241-30G44 | DC DISTRIBUTION DOOR E/W BATMAN | | |
| | 24 | 6 | 1 | 601413958 | ED-83241-30G41,A | DC DISTRIBUTION ASSY E/W LVD/R | | |
| | 25 | 7 | 1 | 846666220 | CABLE ASSEMBLY (RIBBON - NUMBER 2 RECTIFIER SHELF ASSEMBLY) | | | |
| E | 26 | 8 | 1 | 846666238 | CABLE ASSEMBLY (RIBBON - NUMBER 3 RECTIFIER SHELF ASSEMBLY) | | | |
| | 27 | 2 | 1 | 846317717 | CABLE ASSEMBLY (RIBBON) | | | |
| | 28 | DLT | | 846314128 | CABLE ASSEMBLY | DLT | 6 | |
| | 29 | DLT | | 846314136 | CABLE ASSEMBLY | DLT | 6 | |
| | 30 | DLT | | 846448603 | CABLE ASSEMBLY | DLT | 6 | |
| | 31 | DLT | | 846448595 | CABLE ASSEMBLY | DLT | 6 | |
| F | 34 | DLT | | 846746527 | CABLE ASSEMBLY, (GROUND) | DLT | 6 | |
| | 35 | 9,10,11 | 1 | 846746519 | GROUND CABLE ASSEMBLY | | | |
| | 36 | DLT | | 844218602 | GROUND CABLE ASSEMBLY | DLT | 6 | |
| | 39 | 1,15 | 8 | 846697100 | BRACKET ASSY | | | 27 |
| | 40 | 12 | 1 | 847333556 | AC CABLE ASSY (RECT 1-3) | | | |
| | 41 | 12 | 1 | 847333564 | AC CABLE ASSY (RECT 4-6) | | | |
| G | 43 | 7 | 1 | 847731783 | CABLE ASEMBLY (UPPER SHELF) | | | |
| | 44 | 8 | 1 | 847731809 | CABLE ASEMBLY (LOWER SHELF) | | | |
| | 46 | 12 | 1 | 847362357 | LABEL | | | |
| | 47 | 12 | 1 | 847251204 | LABEL (SPANISH) | | | |
| | 48 | 7,8 | 1 | 846516706 | LABEL, RECTIFIER POSITION INDICATOR (1-6) | | | |

| STOCKLIST | | | | | | | | |
|-----------|------|----------------------------------|--------------------|-----------|---|--------|------|----|
| A | B | C | | E | F | G | H | |
| ITEM | LIST | QTY/ LIST | IDENTIFICATION NO. | | DESCRIPTION | REF | NOTE | |
| | | | COMCODE | DRAWING | | | SYM | NO |
| | 55 | DLT | | 846745263 | BUS BAR, RECTIFIER | DLT | 6 | |
| | 59 | 7,8 | 1 | 846646271 | BRACKET ASSY, RECTIFIER SHELF RIGHT MOUNTING | | | |
| | 60 | 7,8 | 1 | 846646321 | BRACKET ASSY, RECTIFIER SHELF LEFT MOUNTING | | | |
| | 62 | 2 | 2 | 846612273 | MOUNTING BRACKET FOR CONTROLLER | | | |
| | 63 | 5,6 | 1 | 107094369 | PRODUCT MANUAL (LINEAGE 2000 ECS BATTERY MANAGEMENT SYSTEM), SELECT CODE 167-790-123 | | | |
| | 64 | 2 | 1 | 106744956 | PRODUCT MANUAL (LINEAGE 2000 ECS CONTROLLER), SELECT CODE 167-790-031 | | | |
| | 65 | 2 | 1 | 106777097 | PRODUCT MANUAL (LINEAGE 2000 SR SERIES RECTIFIER), SELECT CODE 169-790-117 | | | |
| | 66 | DLT | | 106523103 | PRODUCT MANUAL (LINEAGE 2000 ECS BATTERY PLANT), SELECT CODE 167-790-034 | DLT | 6 | |
| | 67 | 1,15 | 1 | 107418287 | PRODUCT MANUAL (LINEAGE 2000 ECS BATTERY PLANT), SELECT CODE 167-790-064 | | | |
| | 69 | DLT | | 846801819 | LINEAGE 2000 BATTERY PLANT MANUAL BINDER. | DLT | 6 | |
| | 75 | 1,15 | 1 | 847494549 | COVER, FRAME REAR | | | |
| | 77 | 12 | 1 | 847362316 | COVER | | | |
| | 78 | 12 | 1 | 847362324 | COVER | | | |
| | 79 | DLT | | 847362332 | COVER, (BOTTOM) | DLT | 6 | |
| | 85 | DLT | | 846830461 | TRANSITION ASSY (CABLE RACK) | DLT | 6 | |
| | 90 | 7,8 | 4 | 400681607 | CABLE TIE PLT4S-M (PANDUIT) | NOTE13 | | |
| | 91 | 5,6,12 23,24,25 26,27 2 | 3 3 3 4 | 901067017 | CABLE TIE TY244M (T&B) | NOTE13 | | |
| | 99 | 12 | 1 | 847362308 | AC BOX | | | |
| | 100 | 12 | 1 | 847362381 | RACEWAY | | | |

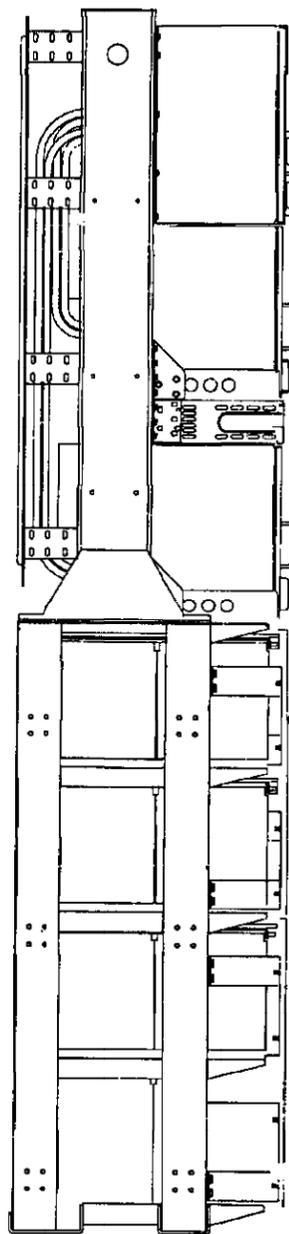
| STOCKLIST | | | | | | | | |
|-----------|----------|--------------|--------------------|----------|-----------------------------------|-----|------|----|
| A | B | C | | E | F | G | H | |
| ITEM | LIST | QTY/ LIST | IDENTIFICATION NO. | | DESCRIPTION | REF | NOTE | |
| | | | COMCODE | DRAWING | | | SYM | NO |
| 101 | 12 | 1 | 847312808 | | ASSEMBLY BLOCK | | | |
| 102 | 12 | 2 | 403692767 | | PLUG DP1750-2773 | | | |
| 103 | 12 | 6 | 405668088 | | PLUG 2703 (HEYCO) | | | |
| 104 | 12 | 4 | 997244033 | | SNAP BUSHING SB-875-11 (HEYCO) | | | |
| 105 | 12 | 1 | 403589062 | | GROMMET SNGS-2 (RICHCO) | | | |
| 106 | 12 | 4 | 901352575 | | NUT 8-32 HEX E/W LOCKWASHER | | | |
| 108 | 12 | 4 | 901219444 | | SCR SEMS HHSW #8-32X1/2 | | | |
| 109 | DLT | | 901015461 | | NUT, HEX E-W LKW 8-32 | DLT | | |
| | 12 | 4 | | | | | | |
| 111 | 12 | 6 | 841064876 | | 10-32X3/8 SCR, HHSW | | | |
| 112 | 7,8 | 8 | 901078717 | | SCREW, HHSWT 12-24 X 5/8 | | | |
| | 5,6,23 | 10 | | | | | | |
| | 24,25,26 | 10 | | | | | | |
| | 27 | 10 | | | | | | |
| | 1,15 | 24 | | | | | | |
| 113 | 9,10,11 | 4 | 901078717 | | SCREW, HHSWT 12-24 X 5/8 | | | |
| 114 | 2 | 6 | 840026827 | | SCR, HHSWT | | | |
| 116 | 7,8 | 6 | 840057640 | | SCR, HHWM | | | |
| 117 | 23,24,25 | 4 | 801601261 | P-160126 | SCR 5/16-18 X 7/8 | | | |
| | 26,27 | 4 | | | | | | |
| | 10,11 | 8 | | | | | | |
| 118 | 9 | 8 | 801703968 | | SCR 5/16-18 X 3/4 | | | |
| 121 | 5,6,23 | 1 | 847230505 | | PRODUCT ID LABEL | | | |
| | 24,25,26 | 1 | | | | | | |
| | 27 | 1 | | | | | | |
| 132 | DLT | | 802841577 | | WASHER, FLAT .250 | DLT | 6 | |
| 133 | 23,24,25 | 4 | 814251898 | P-42E189 | WASHER, FLAT 3/8 | | | |
| | 26,27 | 4 | | | | | | |
| 134 | 5,6,7 | 4 | 814251880 | P-42E188 | WASHER, FLAT .312 | | | |
| | 8,23,24 | 4 | | | | | | |
| | 25,26,27 | 4 | | | | | | |
| | 9,10,11 | 8 | | | | | | |

| | | | | | | | | | |
|----------------|-------|----|----|--|--|--|--|--|--|
| SHEET INDEX | ISSUE | 17 | 17 | | | | | | |
| | SH NO | D1 | D2 | | | | | | |
| | ISSUE | | | | | | | | |
| | SH NO | | | | | | | | |

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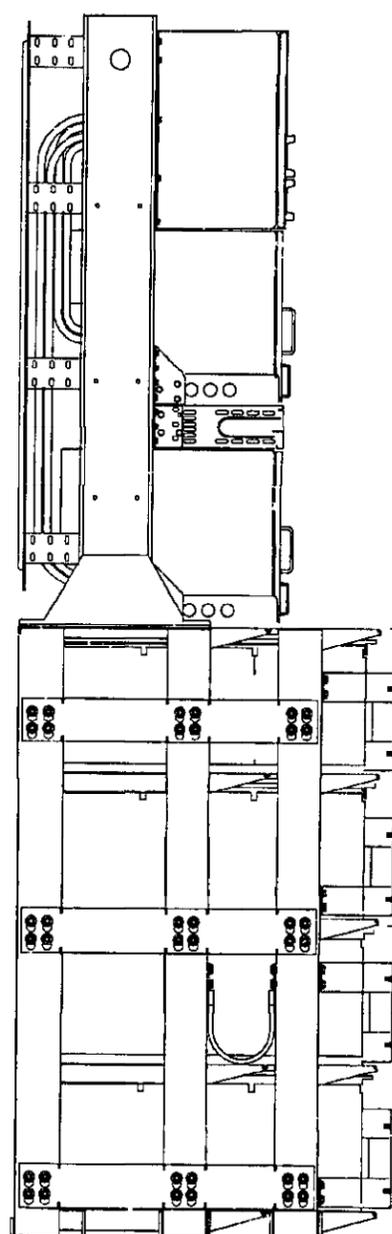


REAR VIEW
(REAR COVER SHOWN)

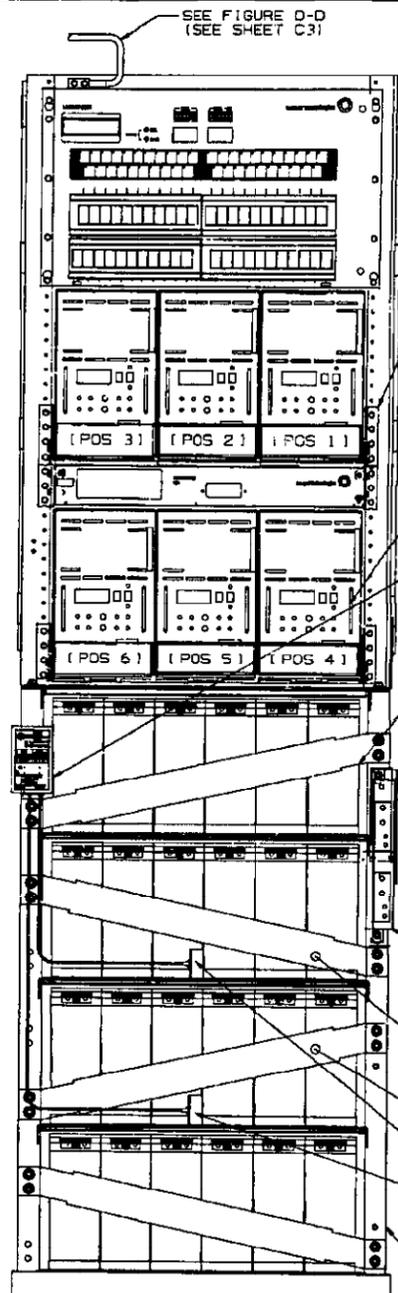


LEFT SIDE VIEW
(LIST 11)

- 158: 846808798 COVER (1 PLACES)
- 200: 840059844 SCR 10-32 X 7/16
- 198: 802497545 WASHER, 216
- 196: 802017939 LK WASHER, 190 (8 PLACES)



LEFT SIDE VIEW
(LIST 10)



FRONT VIEW
(LEXAN COVER NOT SHOWN)

SEE FIGURE D-D
(SEE SHEET C3)

- 203: 846895579 BRACKET, CABLE
- 205: 901078717 SCR, HHSWT 12-24 (3 PLACES) (SEE NOTE 24)

- A1: 107310187 SF507-48V 364 TYP PWR UNIT TABLE B REF

- CU216A THERMAL COMPENSATION MODULE (SEE FIG. D & NOTE 98)

- D1: (24) 407435825 1 375AH STRING OF 24 2VR375E SERIES BATTERIES
- D2: (24) 407435841 1 250AH STRING OF 24 2VR250E SERIES BATTERIES
- D3: (23) 407435825 1 375AH STRING OF 23 2VR375E SERIES BATTERIES
- D4: (1) 407436583 DUMMY BATTERY (23) 407435841 1 250AH STRING OF 23 2VR250E SERIES BATTERIES
- D5: (1) 407436583 DUMMY BATTERY (12) 407435858 1 125AH STRING OF 4VR125EL BATTERIES

TABLE B

- D7: ED83123 30 GR1 BATTERY DISCONNECT 608371610
- D6: ED83123 30 GR3 TERMINAL PLATE ASSY 601372550 (SEE SHEET F4)

TABLE B

- Z: 846808780 BATTERY RETAINER BAR (2 PLACES)

- 1: 846808772 BATTERY RETAINER BAR (2 PLACES)

- THERMISTOR PADDLES INCLUDED WITH LIST 25 OR 26 SEE NOTE 98

- 13: 847411550 2VR375E BATTERY STAND (LIST 10)
- 16: 847411543 2VR250E BATTERY STAND (LIST 11)

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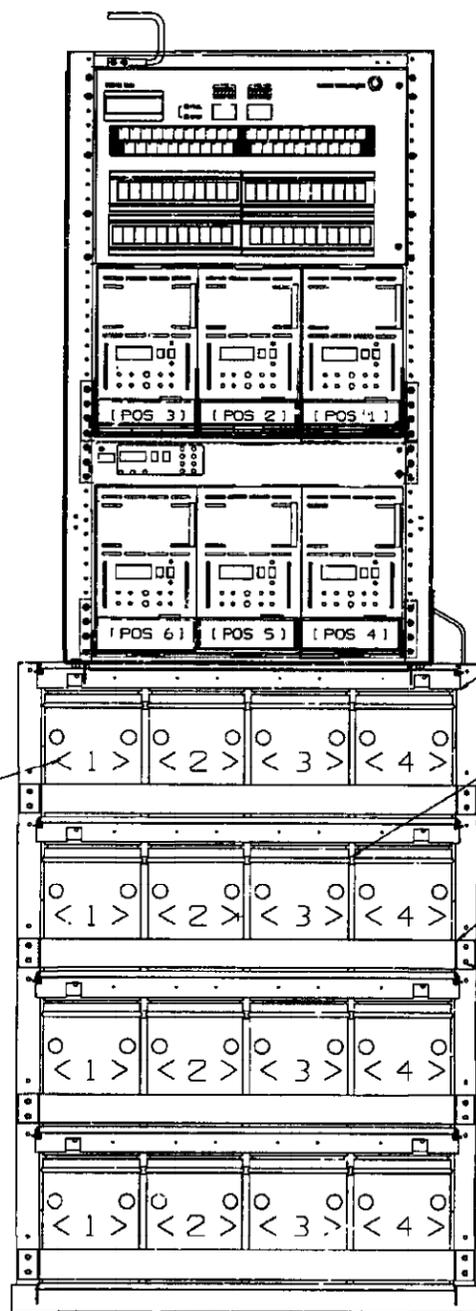
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| | | |
|-------|-------|----------|
| SHEET | ISSUE | DWG SIZE |
| F1 | 8 | C2 |

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407155399
BATTERY, 121R125
(4 PLCS)
(TABLE B, ITEM B1)
INTER-BATTERY STRAP
PROVIDED WITH BATTERY

173: 847696143
COVER, CLEAR
(4 PLCS)

172: 847582863
SPACER, 121R125 BATTERY
(12 PLCS)

168: 847539194
RETAINER
(4 PLCS)

171: 403244502
CABLE TIE
(3 PER RETAINER)

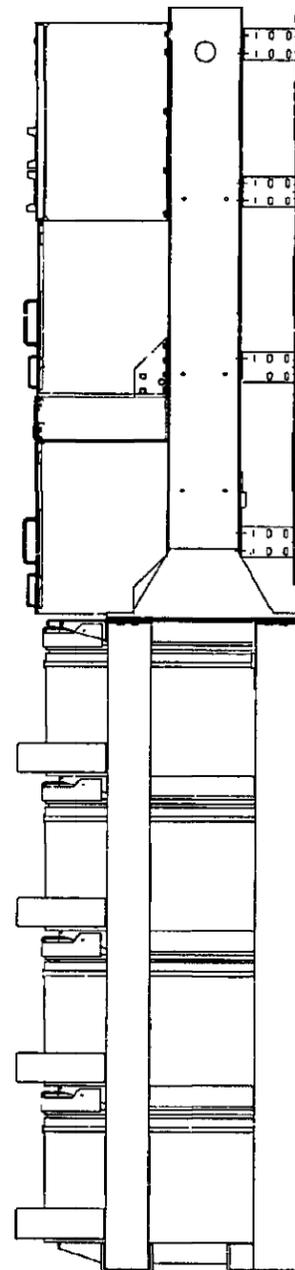
165: 801256165
SCREW, H-C
.250-20 X .750

167: 803690668
WASHER, LOCK .250

166: 801098963
WASHER, FLAT .250
(16 PLCS)

BATTERY DISCONNECT
SWITCH LOCATION
(SEE FIG. KK)
ONE PER STRING/ROW

FRONT VIEW



SIDE VIEW

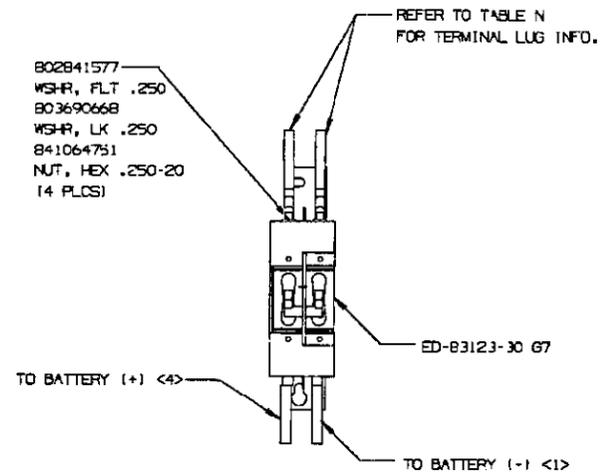


FIGURE KK
ED83123-30, G7 (601793722)
1R BATTERY DISCONNECT
(TABLE B, ITEM B2)

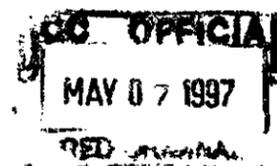


FIG. 8
(LIST 1 E/W 9 BATTERY STAND)
SAME AS SHEET F1 EXCEPT AS SHOWN

| | | |
|---|-------|----------|
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| SHEET | ISSUE | DWG SIZE |
| F2 | 8 | C2 |

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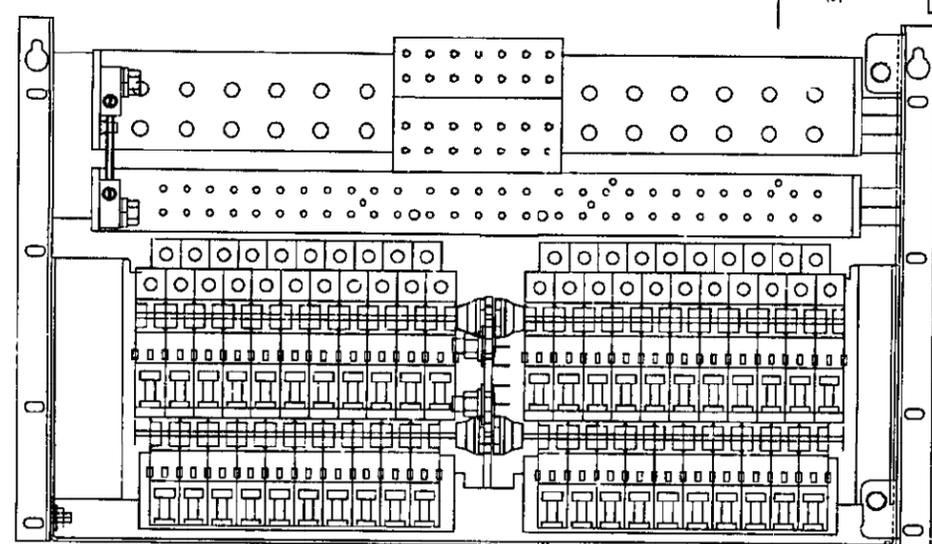


FIG. A

LIST 23, 24, 25, 26
DISTRIBUTION FIGURES

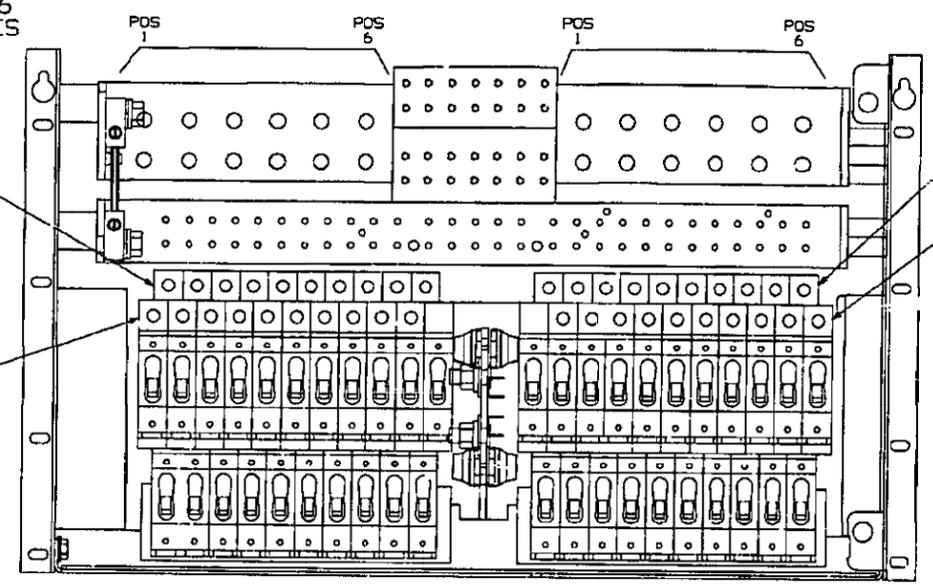
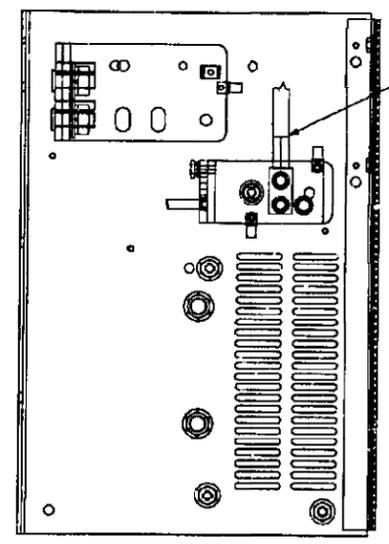
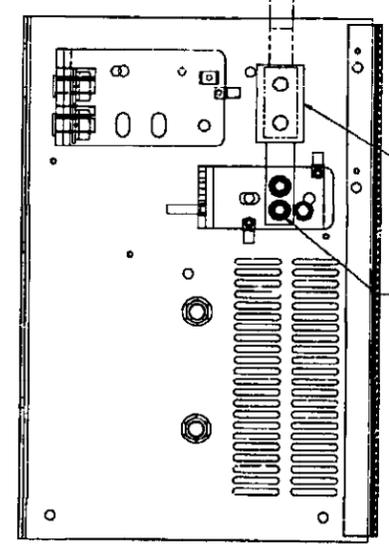


FIG. B
DISTRIBUTION ASSEMBLY WITH
CIRCUIT BREAKERS INSTALLED



SECT. M-M

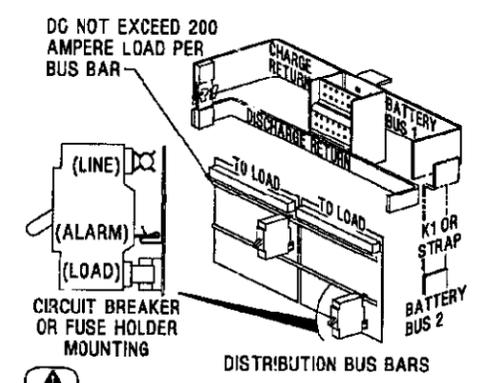
SEE NOTE 67
& SECT N-N



SECT. N-N

F1: 846638575
SYSTEM GROUND
ADAPTER (KIT)
(SEE NOTE 67)
(TABLE B)

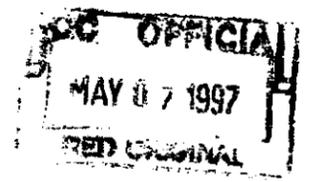
.250-20 HARDWARE
FURNISHED WITH
ADAPTER KIT



BEFORE MAKING ANY CONNECTIONS TO THIS EQUIPMENT, REFER TO THE PRODUCT DOCUMENTATION FOR SAFETY PRECAUTIONS, IMPORTANT CONNECTION AND OPERATING CONSIDERATIONS, PROPER ELECTRICAL TORQUES, AND PROPER HARDWARE (WIRES, LUGS, AND CRIMP TOOLS). FOR USE IN A CONTROLLED ENVIRONMENT. INSTALL ONLY IN RESTRICTED ACCESS AREAS.

FUSES CAN PRODUCE SPARKS

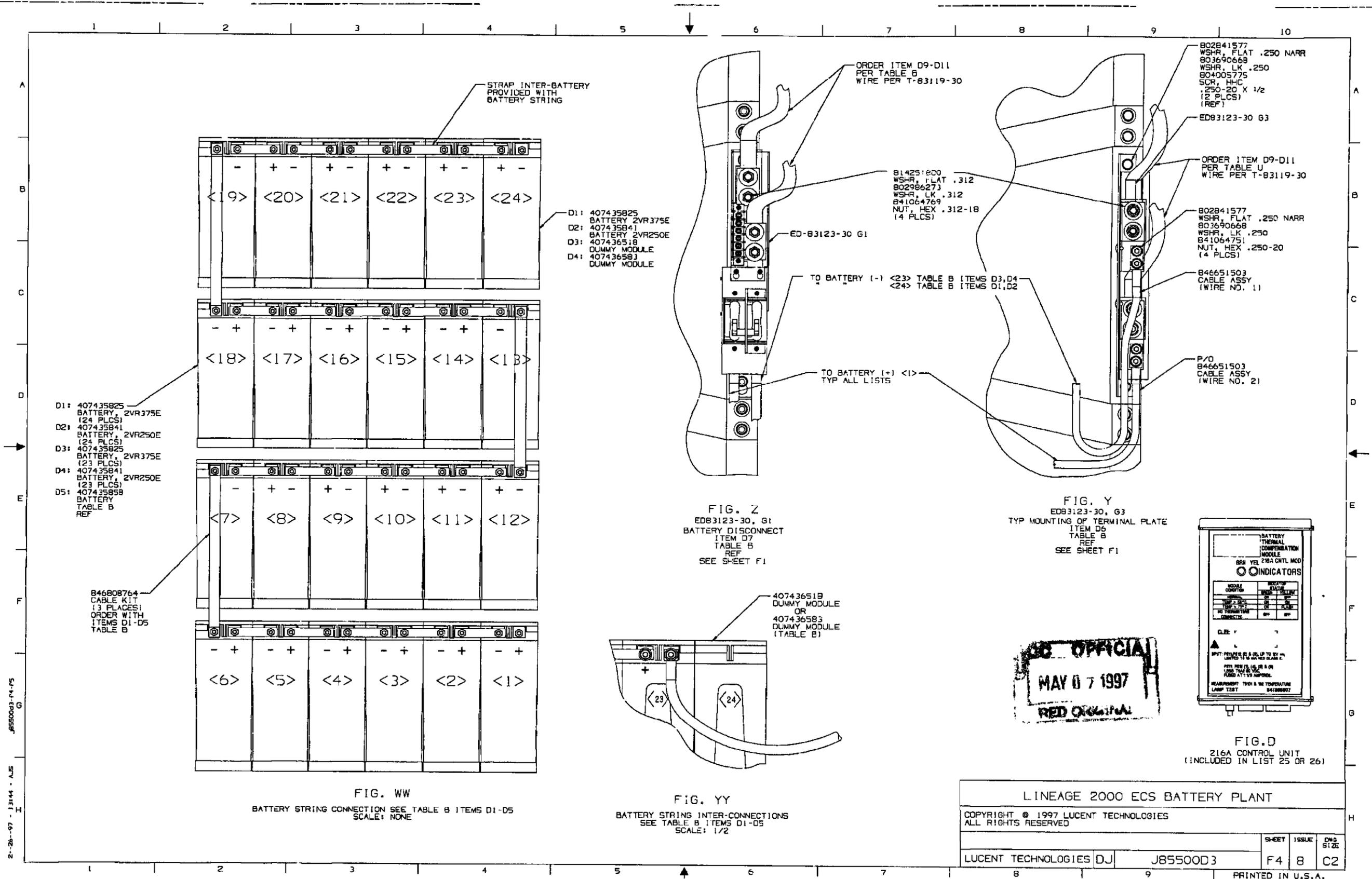
FIG. C



| | | |
|---|-------|-----------|
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J855003 P3



- D1: 407435825 BATTERY, 2VR375E (24 PLCS)
- D2: 407435841 BATTERY, 2VR250E (24 PLCS)
- D3: 407435825 BATTERY, 2VR375E (23 PLCS)
- D4: 407435841 BATTERY, 2VR250E (23 PLCS)
- D5: 407435858 BATTERY TABLE B REF

B46808764 CABLE KIT (3 PLACES) ORDER WITH ITEMS D1-D5 TABLE B

- D1: 407435825 BATTERY 2VR375E
- D2: 407435841 BATTERY 2VR250E
- D3: 407436518 DUMMY MODULE
- D4: 407436583 DUMMY MODULE

ORDER ITEM D9-D11 PER TABLE B WIRE PER T-83119-30

B14251800 WSHR, FLAT .312
B02986273 WSHR, LK .312
B41064769 NUT, HEX .312-18 (4 PLCS)

B02841577 WSHR, FLAT .250 NARR
B03690668 WSHR, LK .250
B04005775 SCR, HHC .250-20 X 1/2 (2 PLCS) (REF)

ORDER ITEM D9-D11 PER TABLE U WIRE PER T-83119-30

B02841577 WSHR, FLAT .250 NARR
B03690668 WSHR, LK .250
B41064751 NUT, HEX .250-20 (4 PLCS)

B46651503 CABLE ASSY (WIRE NO. 1)

P/O B46651503 CABLE ASSY (WIRE NO. 2)

FIG. WW BATTERY STRING CONNECTION SEE TABLE B ITEMS D1-D5 SCALE: NONE

FIG. YY BATTERY STRING INTER-CONNECTIONS SEE TABLE B ITEMS D1-D5 SCALE: 1/2

FIG. Z EDB3123-30, G1 BATTERY DISCONNECT ITEM D7 TABLE B REF SEE SHEET F1

FIG. Y EDB3123-30, G3 TYP MOUNTING OF TERMINAL PLATE ITEM D6 TABLE B REF SEE SHEET F1

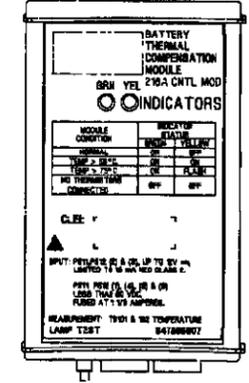


FIG. D 216A CONTROL UNIT (INCLUDED IN LIST 25 OR 26)

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| | | |
|---|-------|----------|
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| SHEET | ISSUE | DWG SIZE |
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J85500D3-F4-F5
2-26-97 - 13144 - AJS

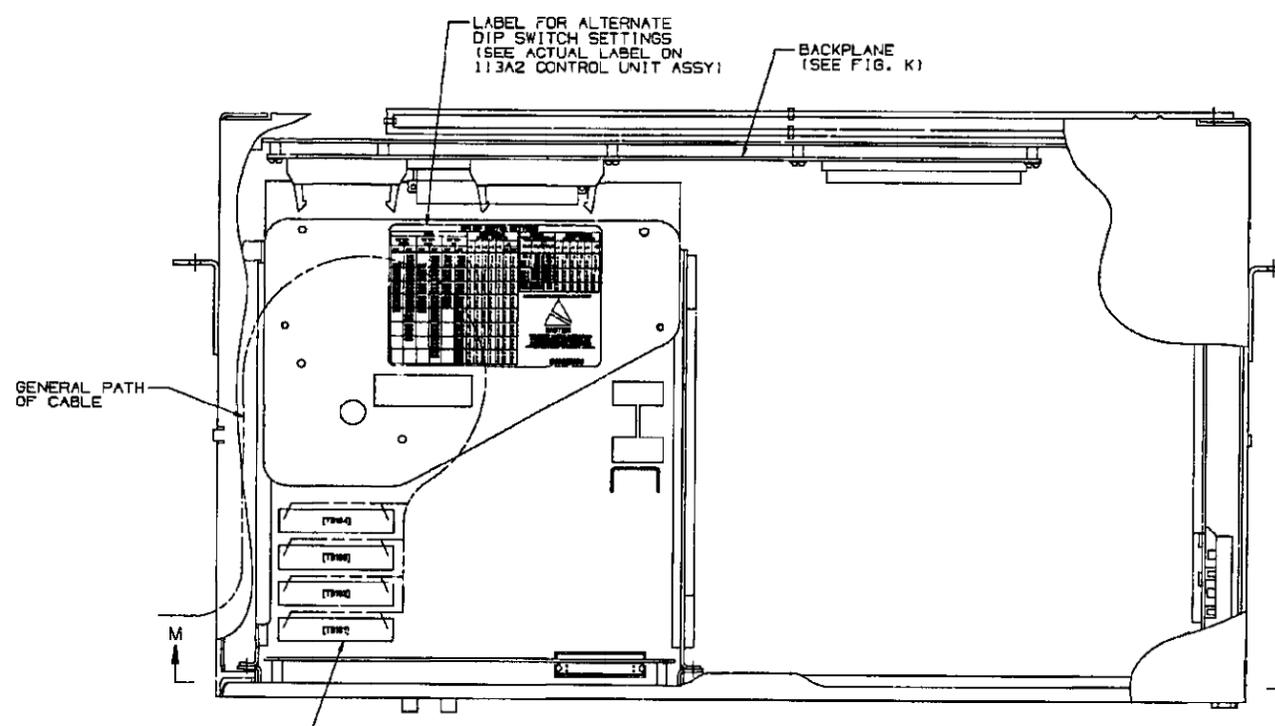


FIG. GG
(CONTROLLER FIELD WIRING)
(SEE NOTE 2.3)

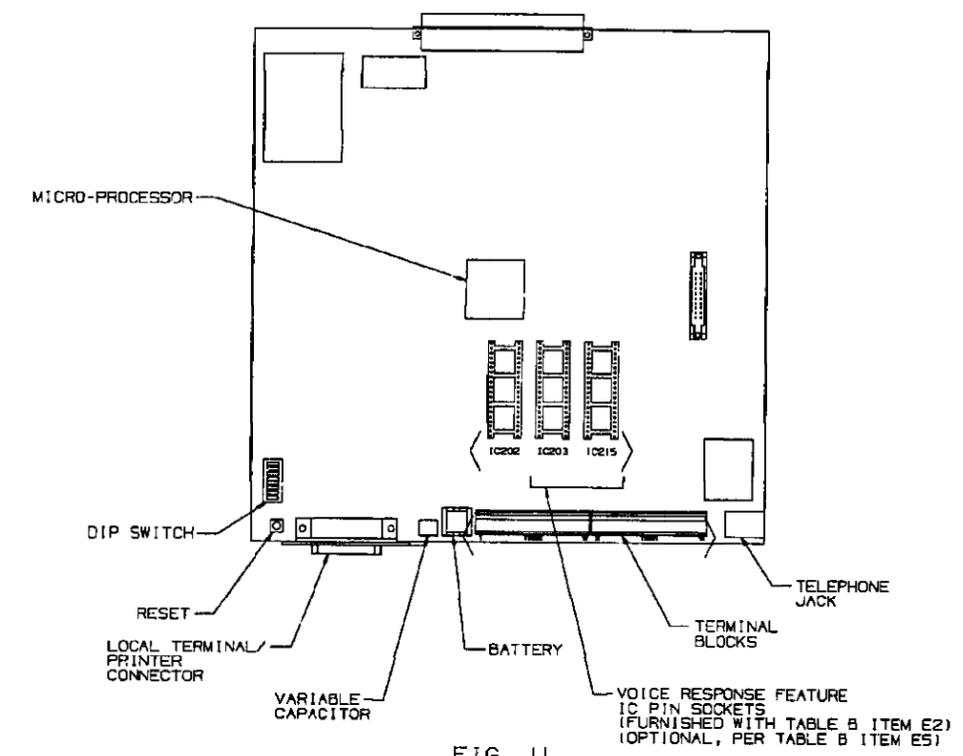


FIG. U

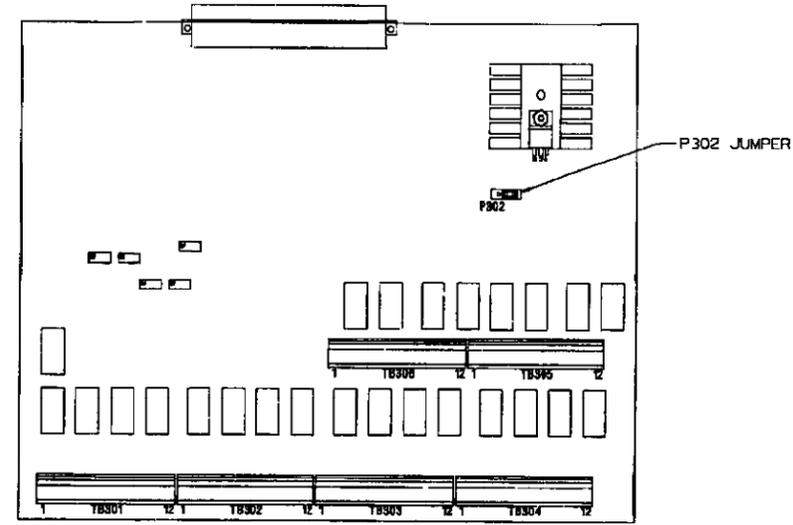


FIG. V

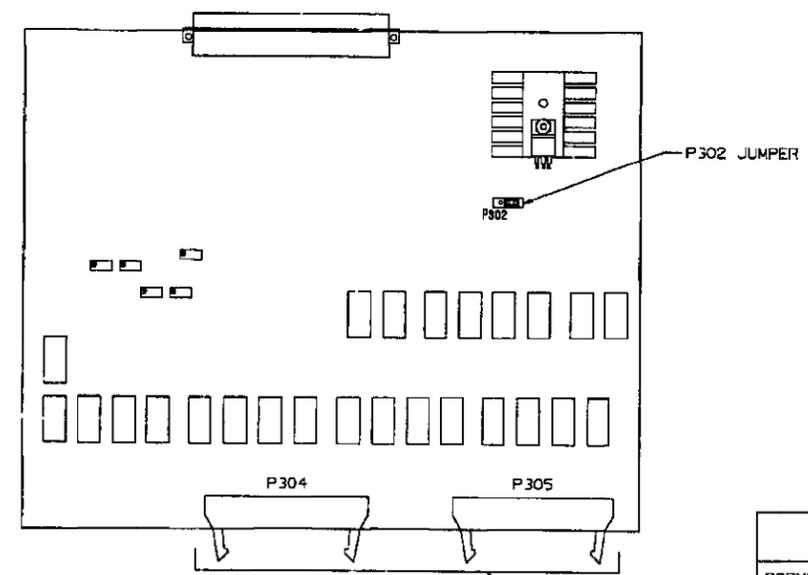
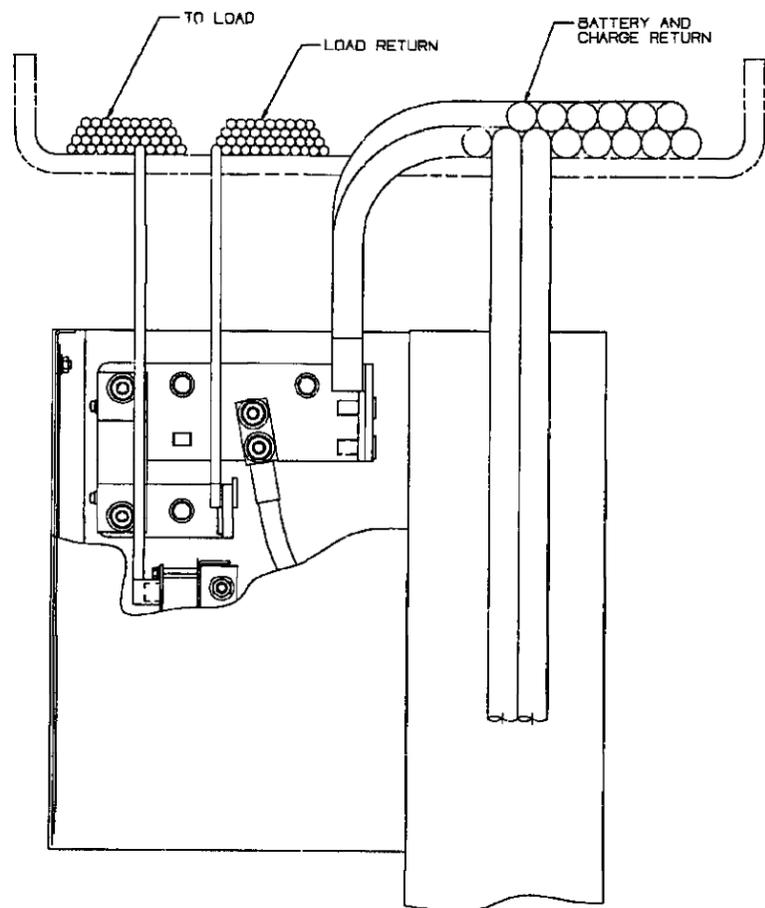


FIG. W

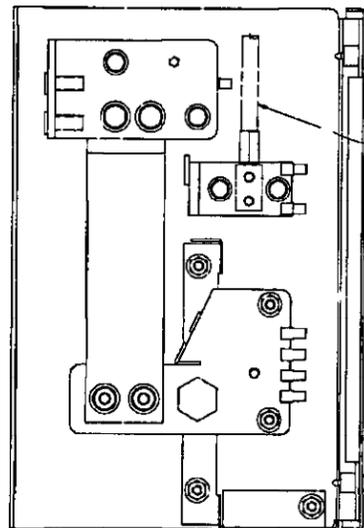
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| | | DWG SIZE C2 | |

LIST 3, 4, 5, & 6
DISTRIBUTION FIGURES



VIEW XX-XX



SECT. SS-SS

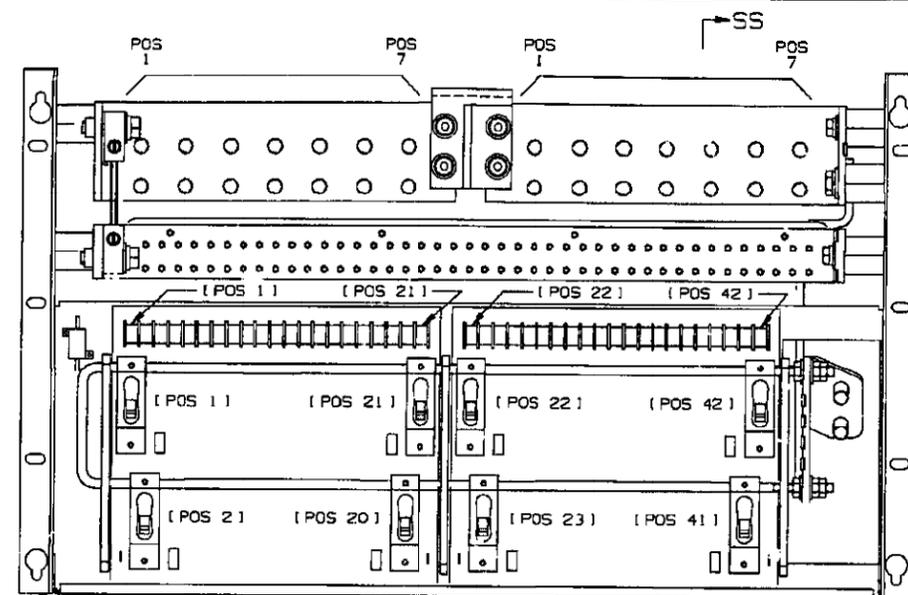
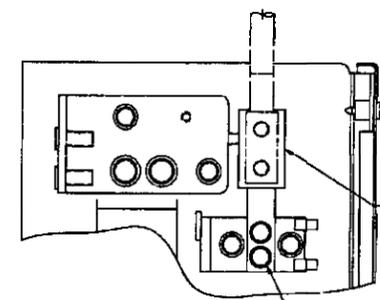
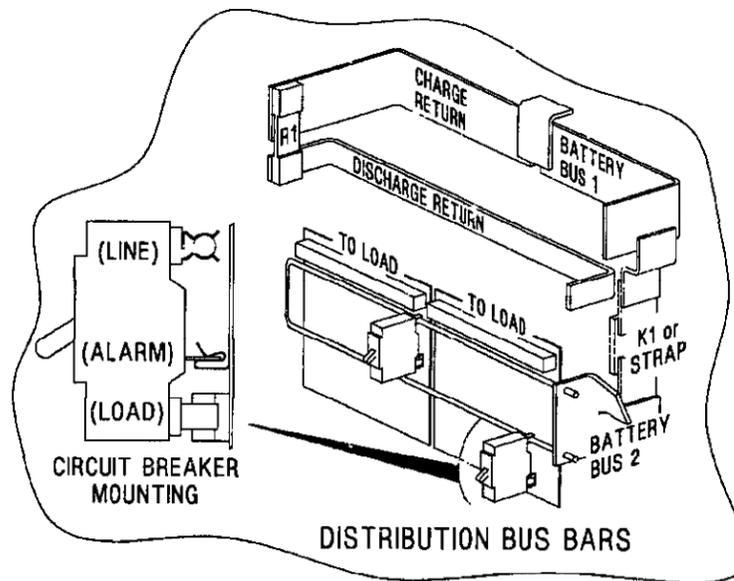


FIG. N
SCALE: 3/4



SECT. JJ-JJ

.250-20 HARDWARE
FURNISHED WITH
ADAPTER KIT



DISTRIBUTION BUS BARS

FIG. Q

(SEE NOTE 57, 65)

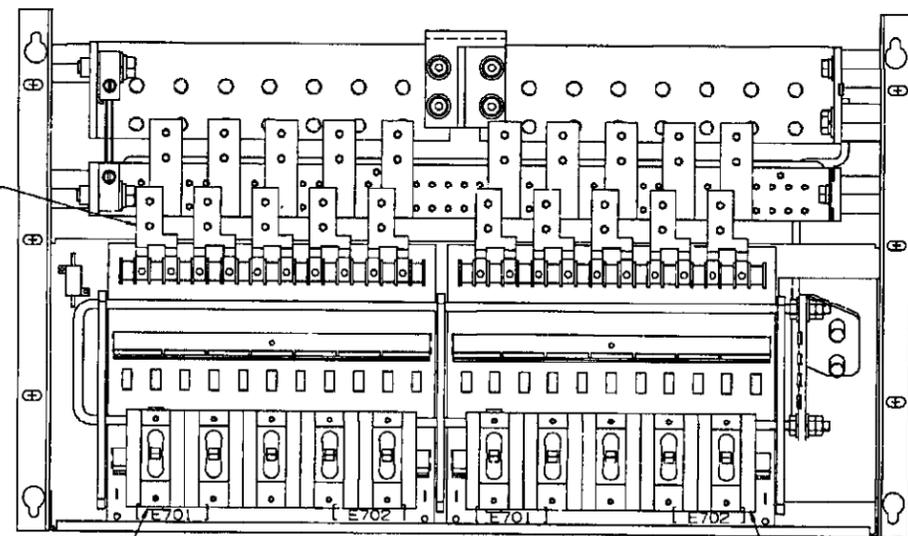


FIG. T
(DISTRIBUTION ASSY (EDB3241-30 GR1) SHOWN WITH CIRCUIT BREAKER INSTALLED)

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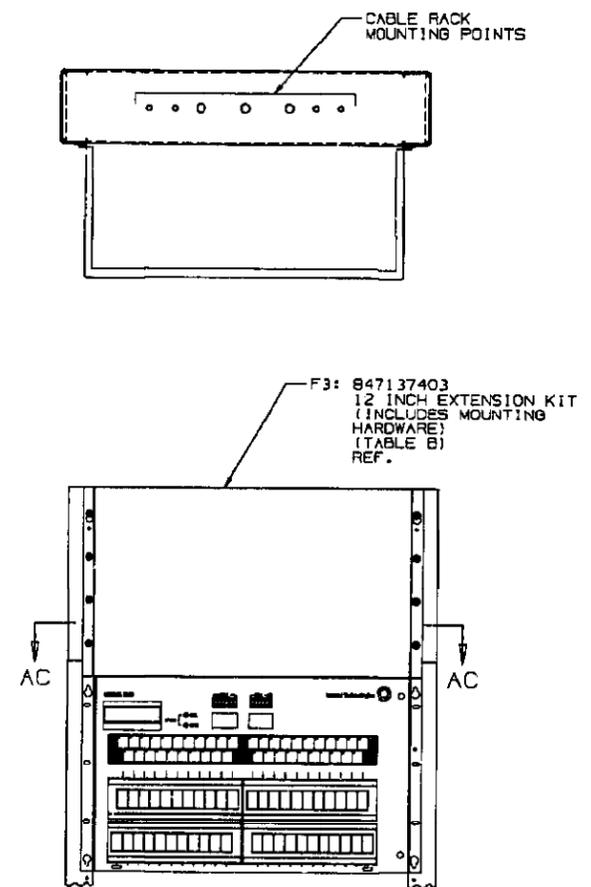
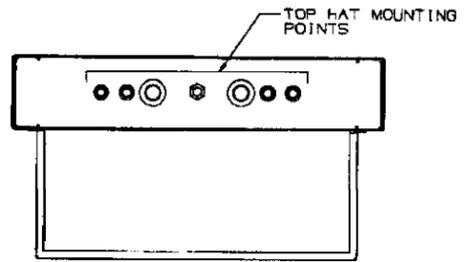


FIG. 11
LIST 14
AND
ITEM F3
(SEE TABLE B)



SECTION AC-AC
SCALE: 3/16

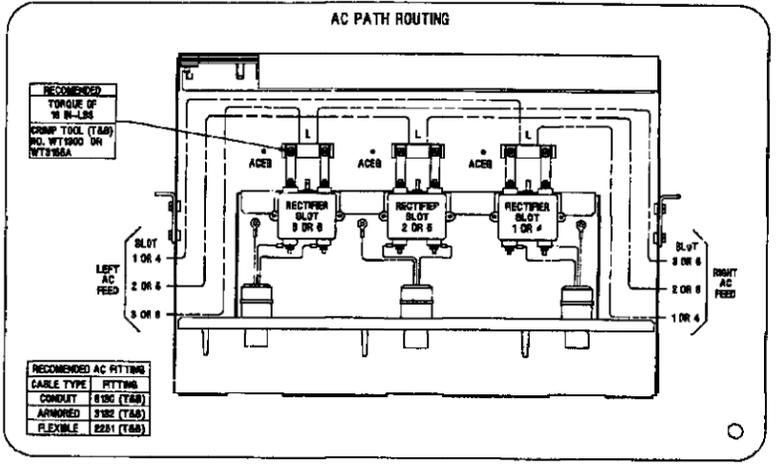


FIG. O
(SEE NOTE 22)

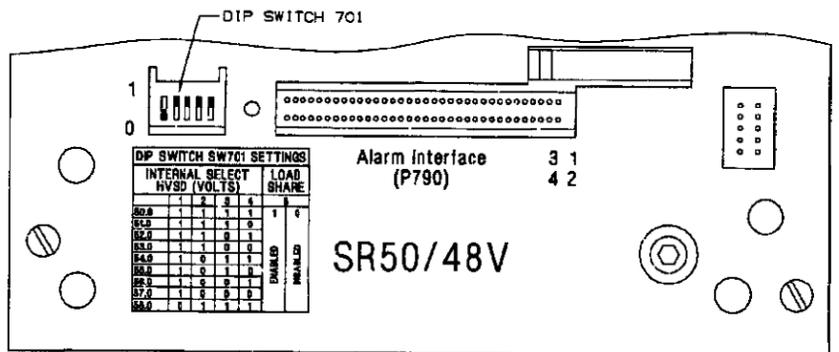


FIG. P
(SEE NOTE 29)

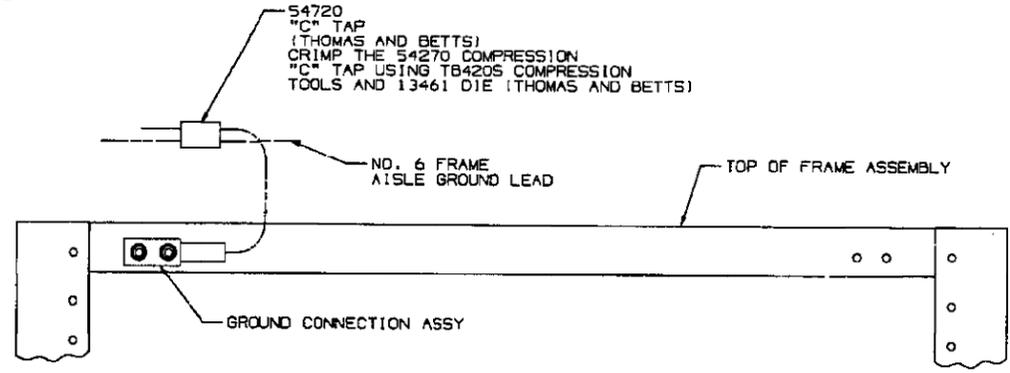


FIG. RR
(FRAME GROUNDING CONNECTIONS)

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| | | | | | |
|---------------------|----|----------|-------|-------|----------|
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| | | | F8 | 8 | C2 |

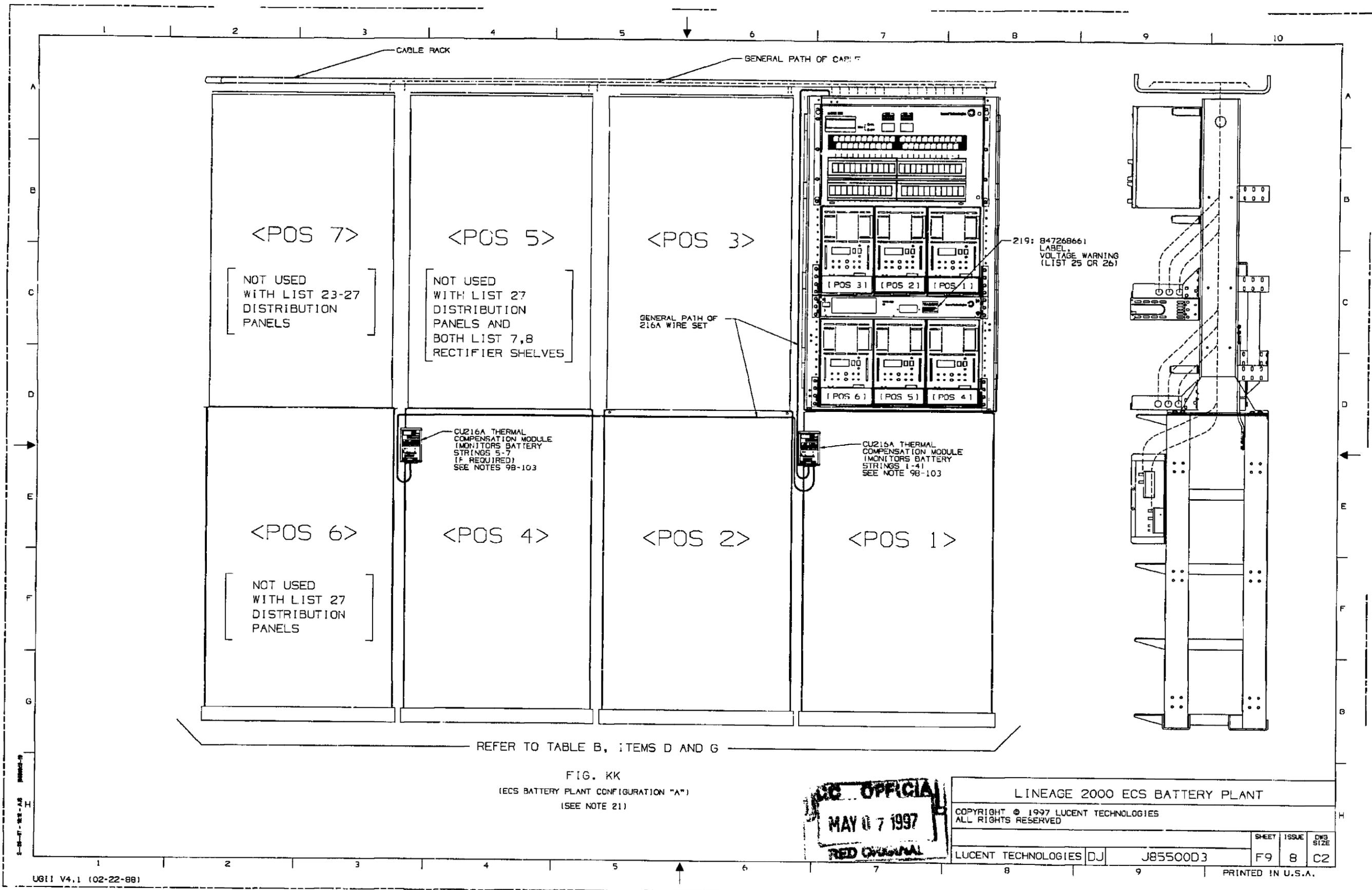
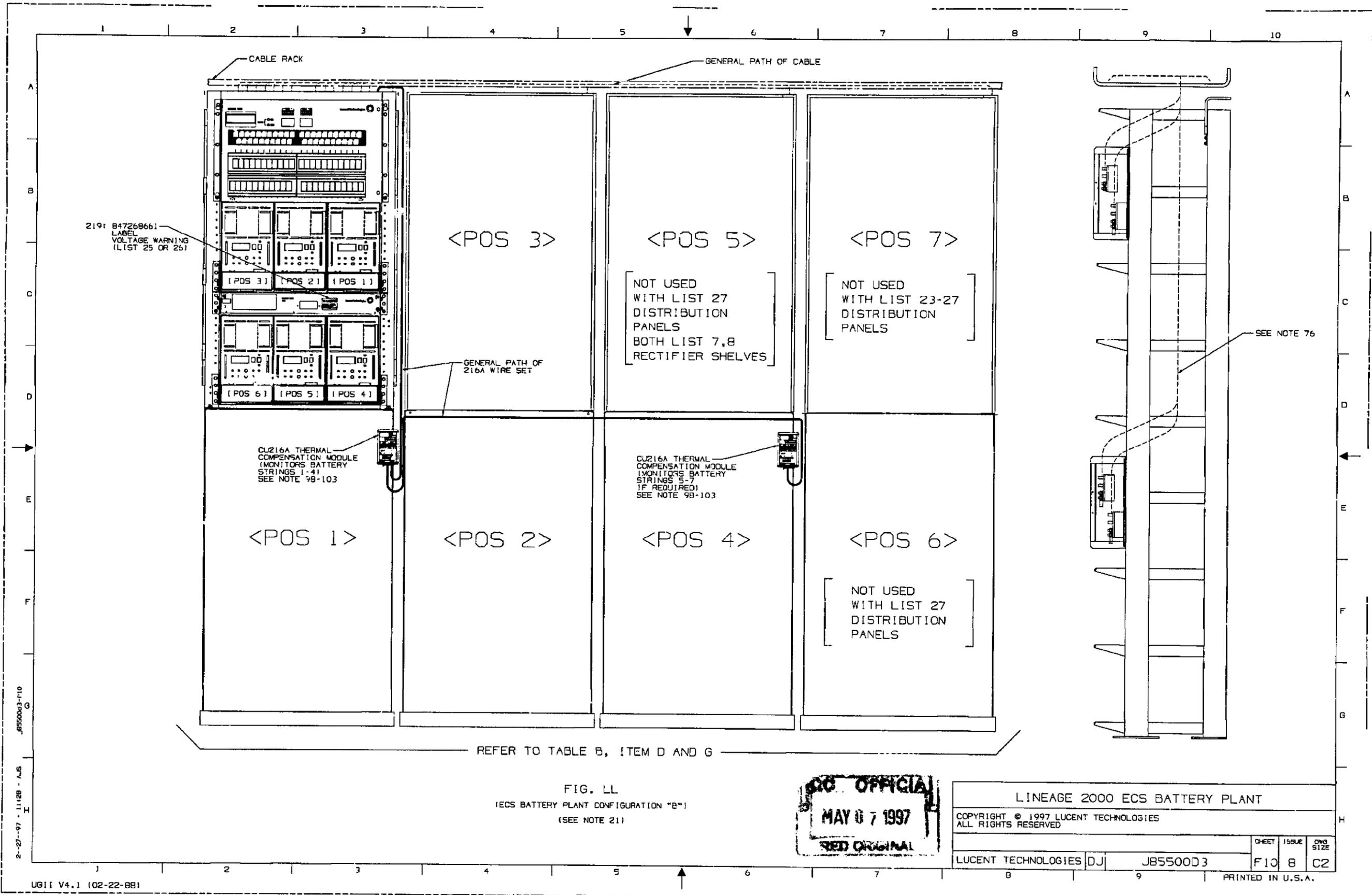


FIG. KK
 (ECS BATTERY PLANT CONFIGURATION "A")
 (SEE NOTE 21)

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|---|-------|----------|
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| SHEET | ISSUE | DWG SIZE |
| F9 | 8 | C2 |



219: 847268661 LABEL VOLTAGE WARNING (LIST 25 OR 26)

<POS 3>

<POS 5>

<POS 7>

[POS 3] [POS 2] [POS 1]

[POS 6] [POS 5] [POS 4]

NOT USED WITH LIST 27 DISTRIBUTION PANELS BOTH LIST 7,8 RECTIFIER SHELVES

NOT USED WITH LIST 23-27 DISTRIBUTION PANELS

CU216A THERMAL COMPENSATION MODULE (MONITORS BATTERY STRINGS 1-4) SEE NOTE 98-103

CU216A THERMAL COMPENSATION MODULE (MONITORS BATTERY STRINGS 5-7 IF REQUIRED) SEE NOTE 98-103

<POS 1>

<POS 2>

<POS 4>

<POS 6>

NOT USED WITH LIST 27 DISTRIBUTION PANELS

SEE NOTE 76

REFER TO TABLE B, ITEM D AND G

FIG. LL
IECS BATTERY PLANT CONFIGURATION "B"
(SEE NOTE 21)

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2-27--97 - 11128 - AJS
J855003-110

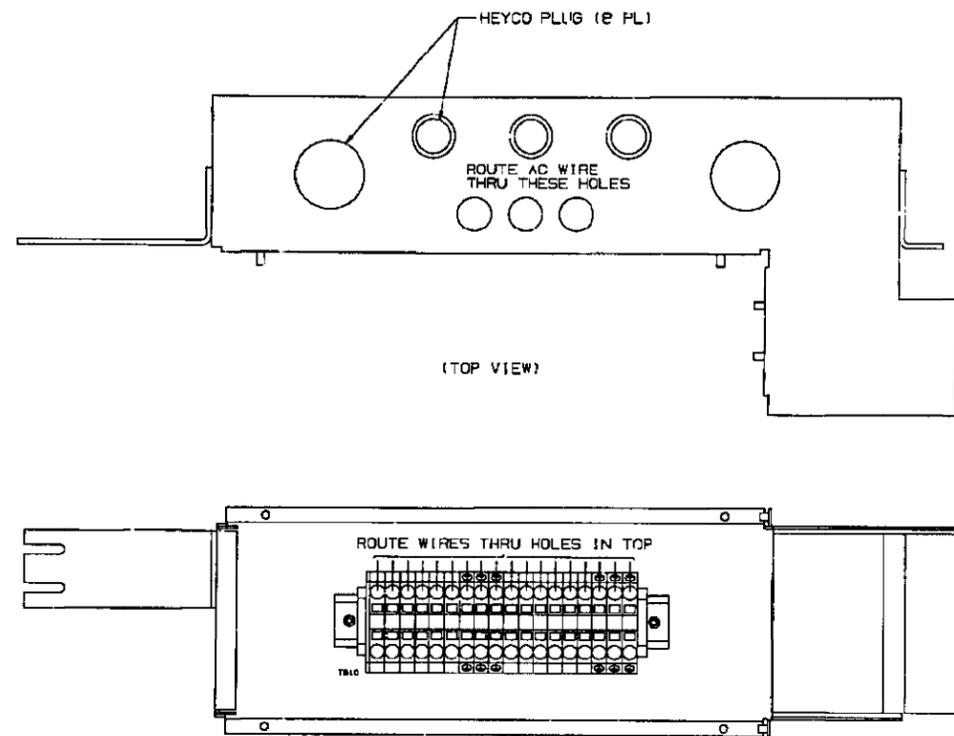
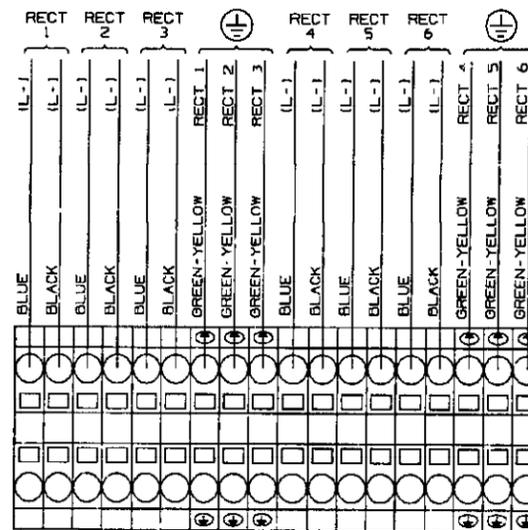


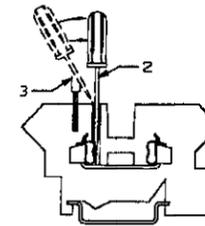
FIG. AC
(FRONT VIEW)
AC ROUTING

ALL AC WIRING IS DONE IN THIS AC BOX. USE 10 GAUGE WIRE, THREE (3) HOLES HAVE KNOCKOUTS FOR 3/4" CONDUIT. REMOVE APPROPRIATE NUMBER OF HEYCO PLUGS. STRIP EACH WIRE 1/2" AND INSERT INTO APPROPRIATE POSITION. REPLACE COVER WHEN AC WIRING IS COMPLETED. (SEE FIGURES AD, AE & AF)



TB10

FIG. AD
AC WIRING SCHEME



- TO INSTALL WIRE:
1. STRIP WIRE TO 1/2" →
 2. INSERT SCREW DRIVER INTO SLOT, APPLYING ENOUGH PRESSURE TO OPEN HOLE FOR WIRE.
 3. INSERT WIRE
 4. REMOVE SCREW DRIVER

FIG. AE
WIRE INSTALLATION

| CABLE TYPE | RECOMMENDED AC FITTINGS | | | |
|------------|-------------------------|-----------|--------------|-----------|
| | 3/4" FITTING | COMCODE | 1/2" FITTING | COMCODE |
| FLEXIBLE | 2535 (T & B) | 405217340 | 2525 (T & B) | 405415902 |
| ARMORED | 3115 (T & B) | 401004569 | 3112 (T & B) | 401111992 |
| CONDUIT | 8223 (T & B) | 997104575 | 8121 (T & B) | 997652474 |

FIG. AF

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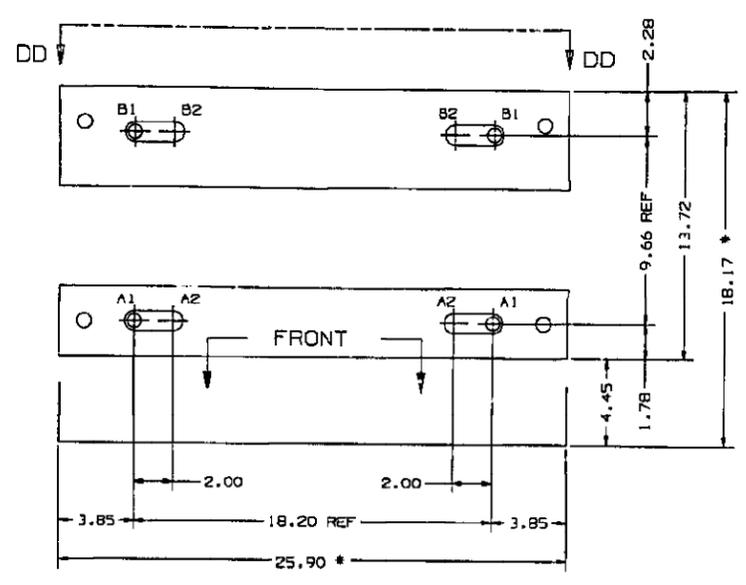


FIGURE I

FOOT PRINT FOR LIST 11
REFER TO DRILL TEMPLATE FOR WALL CLEARANCE INFORMATION
(SEE FLOOR ANCHOR LOCATION TABLE)

* OVERALL DIMENSION INCLUDING RETAINERS, 2 COVERS,
BATTERY STRING DISCONNECT AND/OR TERMINAL PLATE.

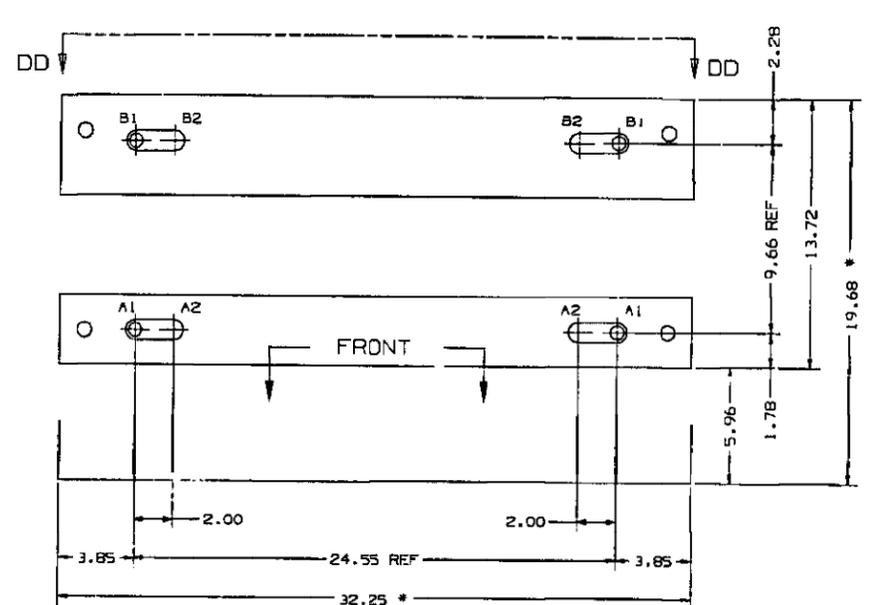


FIGURE CC

FOOT PRINT FOR LIST 9
REFER TO DRILL TEMPLATE FOR WALL CLEARANCE INFORMATION
(SEE FLOOR ANCHOR LOCATION TABLE)

* OVERALL DIMENSION INCLUDING RETAINERS

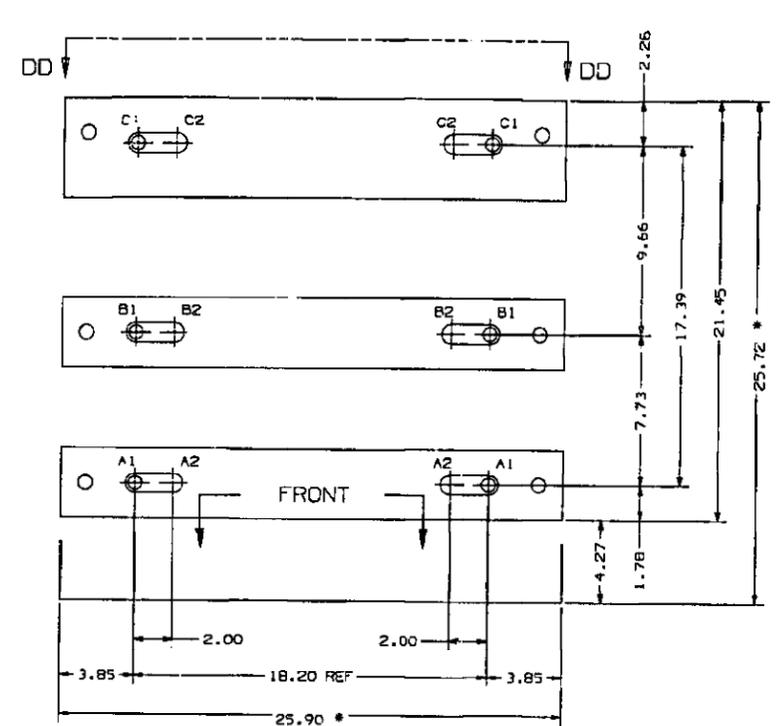


FIGURE AA

FOOT PRINT FOR LIST 10
REFER TO DRILL TEMPLATE FOR WALL CLEARANCE
(SEE FLOOR ANCHOR LOCATION TABLE)

* OVERALL DIMENSION INCLUDING RETAINERS & COVERS,
BATTERY STRING DISCONNECT AND/OR TERMINAL PLATE.

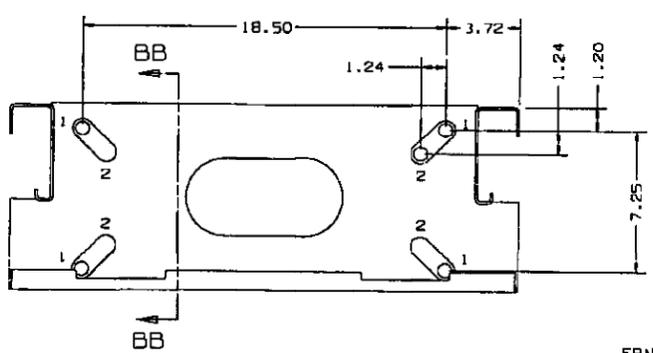
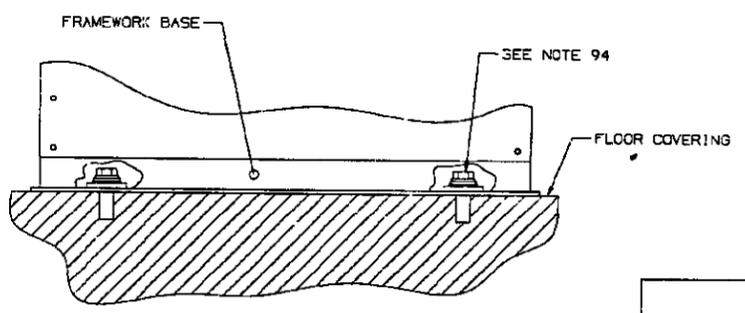
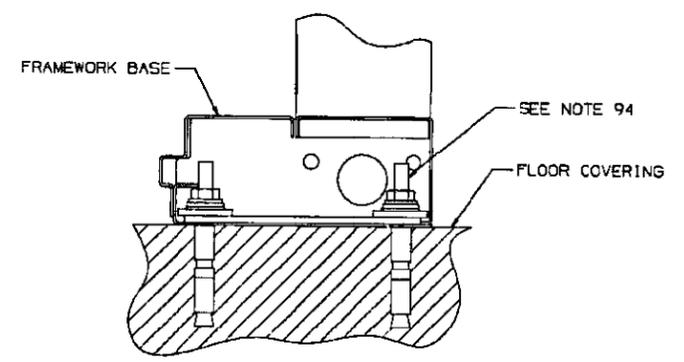


FIGURE BB

FOOT PRINT FOR LIST 15
(SEE FLOOR ANCHOR LOCATION TABLE)



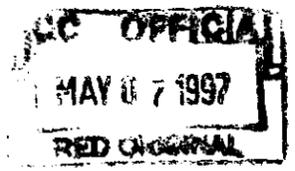
SECTION DD-DD
LIST 9, 10, OR 11
(INTEGRATED GROUND ATTACHMENT)



SECTION BB-BB
LIST 15
(INTEGRATED GROUND ATTACHMENT)
SCALE: 1/2

| FLOOR ANCHOR LOCATION TABLE | | | |
|-----------------------------|------------|------------|--------|
| LIST | PRIMARY | ALTERNATE* | FIGURE |
| 10 | A1, B1, C1 | A2, B2, C2 | AA |
| 11 | A1, B1 | A2, B2 | I |
| 15 | 1 | 2 | BB |
| 9 | A1, B1 | A2, B2 | CC |

*IF INTERFERENCE WITH FLOOR REINFORCING BARS OCCURS DURING INSTALLATION OF ANCHORING DEVICE AT PRIMARY MOUNTING LOCATION THEN ALTERNATE LOCATION SHALL BE USED.



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J85500D3-F11-F12
2-27-97 - 1453 - AUS

FLOOR PLAN DATA

PHYSICAL DATA (SEE NOTE 5)

| LIST | FRAME OUTLINE | HEIGHT | DEPTH | WIDTH | WEIGHT W/O VR/IR BATTERIES (LBS.) | WEIGHT W/ VR/IR BATTERIES (LBS.) | REQ'D FRONT AISLE SPACE | REQ'D REAR AISLE SPACE |
|-------|---------------|------------|------------|------------|-----------------------------------|----------------------------------|-------------------------|------------------------|
| 15 | FIG. NN | 7'- 0" | 1'- 6 1/4" | 2'- 1 7/8" | 84 | N/A | 2'- 6" | 2'- 0" |
| 1, 11 | FIG. NN | 7'- 0" | 1'- 6 1/4" | 2'- 1 7/8" | 210.5 | 1455.5 | 2'- 6" | 2'- 0" |
| 1, 10 | FIG. MM | 7'- 0" | 2'- 2" | 2'- 1 7/8" | 300 | 2172 | 2'- 6" | 2'- 0" |
| 1, 9 | FIG. SS | 7'- 2 2/3" | 1'- 7 5/8" | 2'- 8 1/4" | 233 | 2153 | 2'- 6" | 2'- 0" |

HEAT RELEASE - WATTS (SEE NOTE 1)

| LIST | | FULL LOAD | HALF LOAD |
|------|-----|-----------|-----------|
| | MAX | | |
| | NOM | 2744 | 1382 |
| | MIN | | |

FLOOR LOAD AREA (SEE NOTE 5)

$$\text{FLOOR LOAD} \left(\frac{\text{LBS}}{\text{FT}^2} \right) = \frac{\text{LOAD (LBS)}}{\text{FLOOR AREA (FT}^2\text{)}}$$

| ITEM | WEIGHT (LBS) | FLOOR AREA, EXCLUDING AISLE (FT ²) (SEE NOTE 3) | FLOOR AREA, INCLUDING AISLE (FT ²) (SEE NOTE 2) |
|-----------------------------|--------------|---|---|
| LIST 15 FRAME | 84 | 3.3 | 8.1 |
| 364A3 RECTIFIER | 25 | — | — |
| LIST 2 CONTROLLER | 14 | — | — |
| LIST 1, 11 | 210.5 | 3.3 | 8.1 |
| LIST 1, 10 | 300 | 4.7 | 9.5 |
| LIST 1, 9 | 233 | 4.4 | 10.6 |
| 2VR250E BATTERY | 52 | — | — |
| 2VR375E BATTERY | 78 | — | — |
| 12IR125 BATTERY | 120 | — | — |
| LIST 7 OR 8 RECTIFIER SHELF | 22 | — | — |
| LIST 3 - 6 DISTRIBUTION | 35 | — | — |
| LIST 23 - 24 DISTRIBUTION | 46 | — | — |

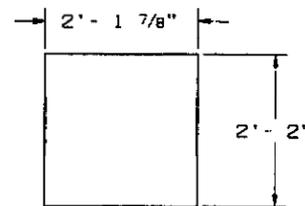


FIG. MM
FRAME OUTLINE
(LIST 10)

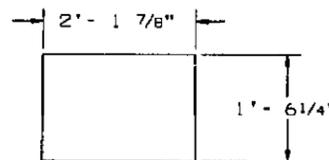


FIG. NN
FRAME OUTLINE
(LIST 11 OR 15)

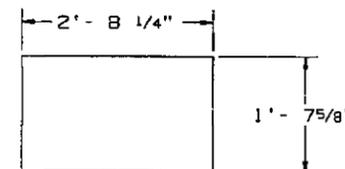


FIG. SS
FRAME OUTLINE
(LIST 9)

NOTES:

- HEAT RELEASE VALUES ARE GIVEN FOR ECS BATTERY PLANTS EQUIPPED WITH SIX SWITCH MODE RECTIFIERS AT 55.5 VOLTS DC. TO CALCULATE HEAT RELEASE VALUES FOR ECS BATTERY PLANTS EQUIPPED WITH LESS THAN 6 RECTIFIERS USE THE FOLLOWING FORMULA.

$$\text{HEAT RELEASE (WATTS)} = \left[\frac{\text{HEAT RELEASE VALUE FROM TABLE} - 25}{6 \text{ RECTIFIERS}} \right] \times \left[\text{NUMBER OF RECTIFIERS} \right] + 25$$

* 25 REPRESENTS THE HEAT RELEASE VALUE - IN WATTS - FOR THE ECS CONTROLLER EQUIPPED WITH THE 113A2 CONTROL UNIT, CP2 AND CP3.

- THE FLOOR LOAD FOR THIS FRAME IS COMPUTED BY AVERAGING THE LOAD OVER THE FLOOR AREA BOUNDED BY THE STAND SIDES AND THE CENTER LINES OF THE FRONT AND REAR AISLES (SEE FIGURE PP). SPECIAL PRECAUTIONS (SUCH AS INCREASING AISLE WIDTHS OR SPACE FROM ADJACENT EQUIPMENTS) MUST BE TAKEN TO ENSURE THAT THIS EQUIPMENT DOES NOT OVERLOAD THE FLOOR ON WHICH IT WILL BE USED.
- THE FLOOR LOAD FOR THIS FRAME IS COMPUTED BY AVERAGING THE LOAD OVER THE FLOOR AREA BOUNDED BY THE STAND OUTLINE (SEE FIG. MM, NN OR SS). SPECIAL PRECAUTIONS (SUCH AS INCREASING AISLE WIDTH OR SPACE FROM ADJACENT EQUIPMENTS) MUST BE TAKEN TO ENSURE THAT THIS EQUIPMENT DOES NOT OVERLOAD THE FLOOR ON WHICH IT WILL BE USED.
- WHEN NO REAR AISLE IS REQUIRED THE UNIVERSAL BATTERY STAND MAY BE MOUNTED FLUSH AGAINST THE WALL.
- FRAME OUTLINE DIMENSIONS INCLUDE DEPTH OF DEEPEST COMPONENT THAT CAN BE MOUNTED IN THE FRAME.
- TO CALCULATE FLOOR LOADING FOR A FRAME EQUIPPED WITH COMPONENTS, ADD THE WEIGHTS AND DIVIDE BY THE APPROPRIATE FLOOR AREA AS SHOWN IN THE EQUATION.

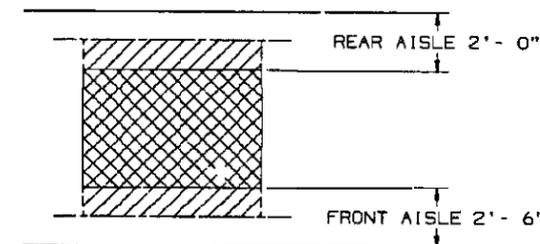
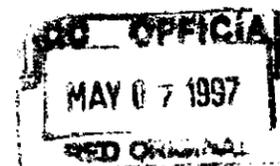


FIG. PP
(AREA USED FOR FLOOR
LOAD CALCULATIONS)

 FLOOR LOADING AREA
 ACTUAL EQUIPMENT FOOTPRINT



LINEAGE 2000 BATTERY PLANT

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