To EXTERNAL
BYPASS (sheet 4)

To J1 rc + interface AC card
2077 (sheet 3)

*0397

N

9....2074.02.
RFI card

L1B

L2B

L3B

Cu bar

*0472

To J14 interface
and inverter
control card
2076 (sheet 3)

J14

cu bar

cu bar

cu bar

SWMB

J1

FC22
FC23
FC24
FC29
FC30
FC31

*0314

J1A

J1

***0215

to SWOUT
(sheet 2)

STATIC SWITCH

L1BO 21A   21A
L2BO 22A   22A
L3BO 23A   23A

to TLI-SWOUT
(sheet 2)

STATIC SWITCH

9....2078.01.
Statich
Switch driver

J7   X3 X3   J5

*0383

From J5 interface and inverter
control card 2076
(sheet 3)

9....2099.01.
Battery SCR
driver

J7   X6 X6   J7

*0314   *0386

From J7 rectifier
control card 2075
(sheet 3)

*0397

to N SWOUT(sheet 2)

*0397

to N SWOUT(sheet 2)

*0389

To J3 power supply
card 2120
(sheet 3)

J3

29   L1B   29
30   L2B   30
31   L3B   31

STATIC SWITCH

From interface and inverter
control card 2076 (sheet 3)

J7
J8
J9

To J7-J8-J9
rc + interface AC card
2077 (sheet 3)

*0314

RECTIFIER +
STATICH SWITCH
MODULE
SE-9APMPS018B

+   cu bar

40

41

J2   J3   J4

red 34   red 34   red 34

flat cable *0403   flat cable *0369   flat cable *0370

J3   J3   J3

9....2079.01.
driver inverter
card

11   12   13

INVERTER MODULE   INVERTER MODULE   INVERTER MODULE
SE-9APMPS024E   SE-9APMPS025E   SE-9APMPS024E

32 black   32 black   32 black   cu bar

To J1 power supply
card 2120
(sheet 3)

J1   J2R

*0474   *0398

To J2 voltage and current
rectifier interface card 2063
MASTER(sheet 3)

F1 F2 F3

*0397

TA
IN-1

5th harmonic
filter
OPTIONAL
SE-9APMPS069...

TA
IN-2

TA
IN-3

J3R

*0400

To J3 voltage and current
rectifier interface card 2063
MASTER(sheet 3)

L1

RECTIFIER

L1   5   A   A1   8   8   L1
L2   6   B   B1   9   9   L2
L3   7   C   C1   10 10 L3

-

TA
INV-1

*0399

TA
INV-2

TA
INV-3

red
black

J4

J5   J6   J8

*0396   *0396   *0396

to A of
transformer (T)
(sheet 2)

to B of
transformer (T)
(sheet 2)

to C of
transformer (T)
(sheet 2)

9....2074.02.
RFI card

To J2 power supply
card 2120
(sheet 3)

J2

*0361

J2B

*0398

To J2 voltage and current
rectifier interface card 2063
SLAVE(sheet 3)

To J9 voltage and
current inverter
interface card 2096
(sheet 3)

F4   F5

*0374

J9

*0397

From J13 rectifier
control card 2075
(sheet 3)

J13   X2 X2   J4

*0384   *0314

9....2064.01.
driver rect.SCR
card

From J1 rectifier
control card 2075
(sheet 3)

J1   X1 X1   J1

*0385   *0314

To voltage and current inverter
interface card 2096
(sheet 3)

BATTERY

red 39
+   39   cu bar

TA BATT

black 37
-      37   cu bar
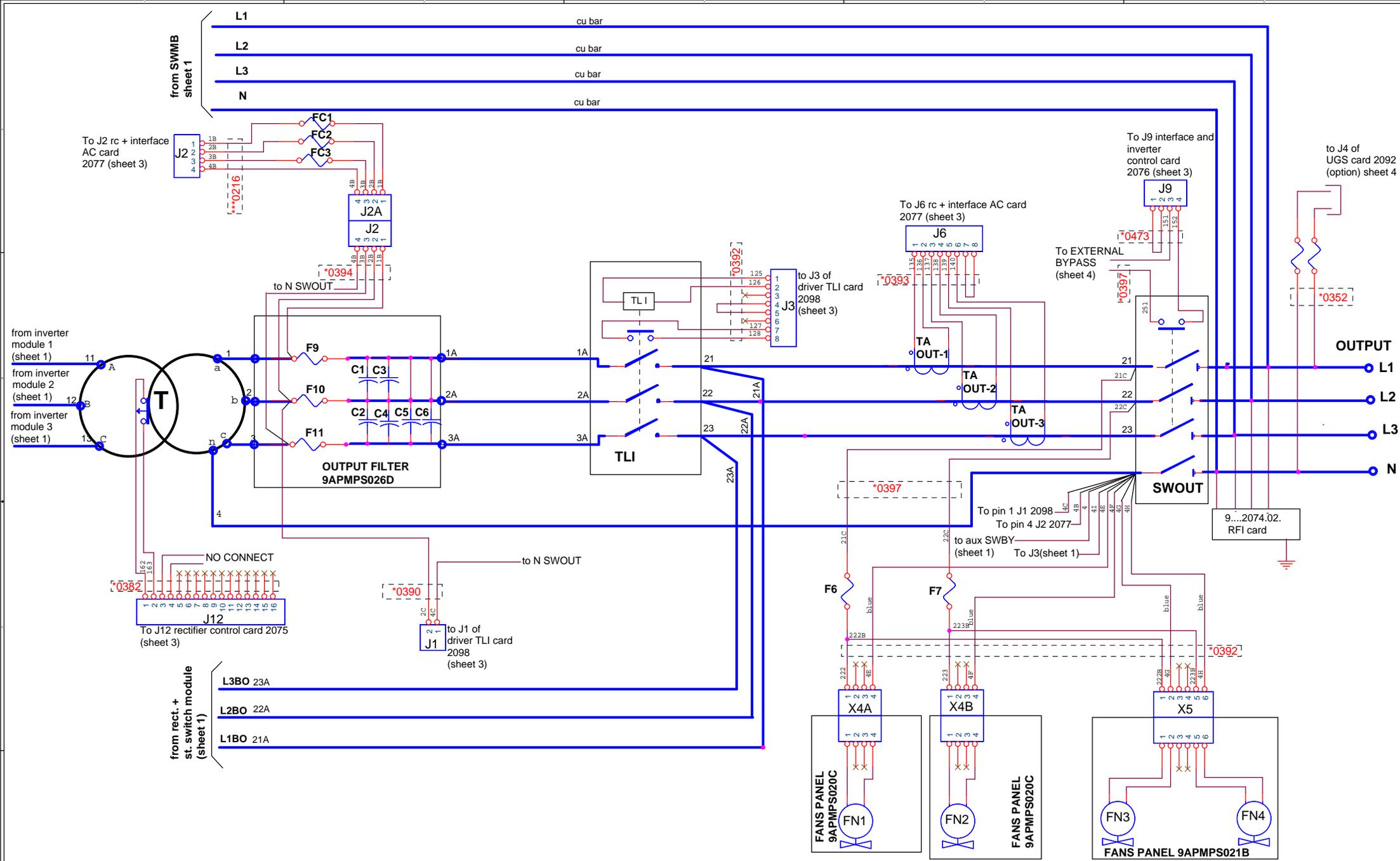
F8

SCR1

REMOVABLE BARS

LEGEND
* = CABLE SPECIFICATION CODE 0CBCA......
** = CABLE SPECIFICATION CODE 0CBFA......
*** = CABLE SPECIFICATION CODE 0CBSA......

GTEC   DOC. Schematic Diagram   COD. SE-9APLB200TP-ED_Rev.00 PAG 1 / 4

OBJECT: LB200TP 6P CABINET

EDITOR: F.Mastropasqua   DATE: 28/04/2014   APPROVATION: F.Amodeo

REPLACE: SE-9APMPS200EC_REV.02

VARIATION: Output filter assembly modified,add fuses FC1..3 and FC22..31

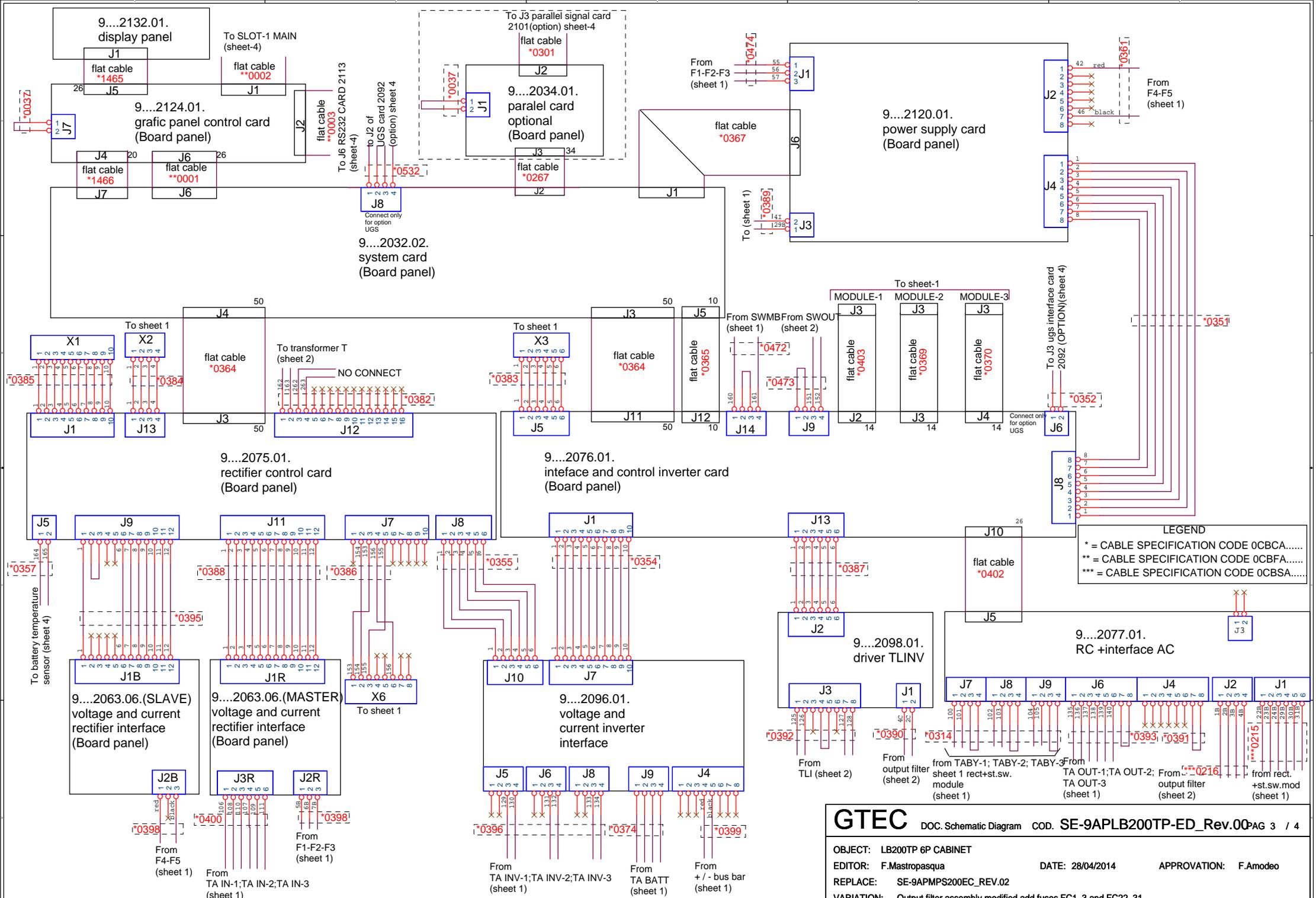COPY, REPRODUCTION. TRANSFER SHALL BE PURSUED ACCORDING TO LAW.

from SWMB sheet 1

L1
L2
L3
N

cu bar
cu bar
cu bar
cu bar

To J2 rc + interface AC card 2077 (sheet 3)

J2
1 1B
2 2B
3 3B
4 4B

**0216

FC1
FC2
FC3

J2A
4 4B
3 3B
2 2B
1 1B

J2
4
3
2
1

*0394

to N SWOUT

To J9 interface and inverter control card 2076 (sheet 3)

J9
1 2 3 4

*0473

To EXTERNAL BYPASS (sheet 4)

*0397

to J4 of UGS card 2092 (option) sheet 4

*0352

To J6 rc + interface AC card 2077 (sheet 3)

J6
1 2 3 4 5 6 7 8
135 136 137 138 139 140

*0393

*0392
125
126
127
128

J3
1 2 3 4 5 6 7 8

to J3 of driver TLI card 2098 (sheet 3)

from inverter module 1 (sheet 1)
from inverter module 2 (sheet 1)
from inverter module 3 (sheet 1)

11 A
12 B
13 C

T

a
b
c
n

1
2
3

4

F9
F10
F11

C1 C3
C2 C4 C5 C6

1A
2A
3A

OUTPUT FILTER 9APMPS026D

TL I

TLI

1A
2A
3A

21
22
23

21A
22A
23A

TA OUT-1
TA OUT-2
TA OUT-3

*0397

21
22
23

21C
22C

251

SWOUT

9....2074.02. RFI card

OUTPUT
L1
L2
L3
N

NO CONNECT

162
163

*0382

J12
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

To J12 rectifier control card 2075 (sheet 3)

*0390
2C
4C

J1
2
4

to J1 of driver TLI card 2098 (sheet 3)

to N SWOUT

from rect. + st. switch module (sheet 1)

L3BO 23A
L2BO 22A
L1BO 21A

To pin 1 J1 2098
To pin 4 J2 2077
to aux SWBY (sheet 1)
To J3 (sheet 1)

4C 4B 4I 4E 4F 4G 4H

F6

21C
blue

F7

2C
blue

222B
223B

*0392

222
4B
223
4F
222B
4G
223B
4H

X4A
1 2 3 4

X4B
1 2 3 4

X5
1 2 3 4 5 6

X4A
1 2 3 4

X4B
1 2 3 4

X5
1 2 3 4 5 6

FANS PANEL 9APMPS020C
FANS PANEL 9APMPS020C
FANS PANEL 9APMPS021B

FN1
FN2
FN3
FN4

GTEC   DOC. Schematic Diagram   COD. SE-9APLB200TP-ED_Rev.00   PAG 2 / 4

OBJECT: LB200TP 6P CABINET
EDITOR: F.Mastropasqua   DATE: 28/04/2014   APPROVATION: F.Amodeo
REPLACE: SE-9APMPS200EC_REV.02
VARIATION: Output filter assembly modified,add fuses FC1..3 and FC22..31

9....2132.01.
display panel

To SLOT-1 MAIN
(sheet-4)

To J3 parallel signal card
2101(option) sheet-4

flat cable
*0301

From
F1-F2-F3
(sheet 1)

*0474

55
56
57

J1
1
2
3

*036

42 red

46 black

From
F4-F5
(sheet 1)

J1
flat cable
*1465

J5
26

flat cable
**0002

J1

flat cable
**0003

J2

To J6 RS232 CARD 2113
(sheet-4)

*0037

to J2 of
UGS card 2092
(option) sheet 4

*0037

J1
1
2

9....2034.01.
paralel card
optional
(Board panel)

J2

J3
34

flat cable
*0267

J2

flat cable
*0367

J6

9....2120.01.
power supply card
(Board panel)

J2
1
2
3
4
5
6
7
8

J4
1
2
3
4
5
6
7
8

9....2124.01.
grafic panel control card
(Board panel)

*0037

J7
1
2

J4
20

flat cable
*1466

J7

J6
26

flat cable
**0001

J6

J8
1
2
3
4
Connect only
for option
UGS

flat cable
*0532

9....2032.02.
system card
(Board panel)

J1

To (sheet 1)

*0389

* 14I
29B

J3
2
1

To sheet 1

X1
1 2 3 4 5 6 7 8 9 10

X2
1 2 3 4

J4
50

flat cable
*0364

To transformer T
(sheet 2)

NO CONNECT

To sheet-1

MODULE-1   MODULE-2   MODULE-3

J3   J3   J3

To J3 ugs interface card
2092 (OPTION)(sheet 4)

*0351

*0385

1 2 3 4 5 6 7 8 9 10
J1

1 2 3 4
J13

*0384

J3
50

162 163 262 263

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
J12

*0382

9....2075.01.
rectifier control card
(Board panel)

To sheet 1

X3
1 2 3 4 5 6

*0383

1 2 3 4 5 6
J5

J3
50

flat cable
*0364

J11
50

J5
10

flat cable
*0365

J12
10

From SWMB From SWOUT
(sheet 1)   (sheet 2)

*0472

160 161

151 152

*0473

1 2 3 4 5 6 7 8 9 10
J14

1 2 3 4 5 6
J9

flat cable
*0403

J2
14

flat cable
*0369

J3
14

flat cable
*0370

J4
14

Connect only
for option
UGS

J6
1
2

*0352

J8
8 7 6 5 4 3 2 1

9....2076.01.
inteface and control inverter card
(Board panel)

J5
1 2

J9
1 2 3 4 5 6 7 8 9 10 11 12

J11
1 2 3 4 5 6 7 8 9 10 11 12

J7
1 2 3 4 5 6 7 8 9 10

J8
1 2 3 4 5 6
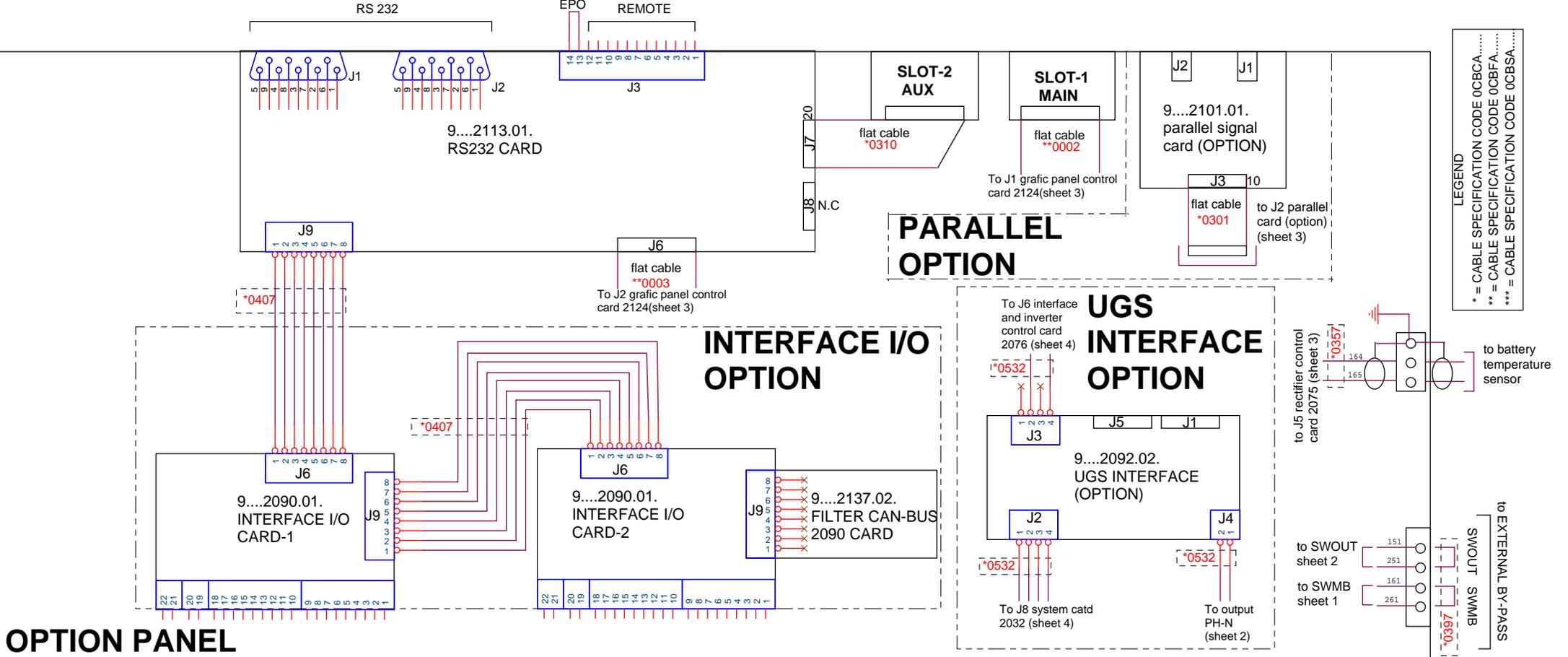
J1
1 2 3 4 5 6 7 8 9 10

J13
1 2 3 4 5 6

J10
26

flat cable
*0402

LEGEND

* = CABLE SPECIFICATION CODE 0CBCA......
** = CABLE SPECIFICATION CODE 0CBFA......
*** = CABLE SPECIFICATION CODE 0CBSA.....

*0357

164 165

To battery temperature
sensor (sheet 4)

*0388

154 153 156 155

*0386

*0355

*0354

*0387

*0395

1 2 3 4 5 6 7 8 9 10 11 12
J1B

1 2 3 4 5 6 7 8 9 10 11 12
J1R

153 154 155 156

1 2 3 4 5 6 7 8
X6

To sheet 1

1 2 3 4 5 6 7 8 9 10
J10

1 2 3 4 5 6 7 8 9 10
J7

1 2 3 4 5 6
J2

9....2098.01.
driver TLINV

9....2063.06.(SLAVE)
voltage and current
rectifier interface
(Board panel)

9....2063.06.(MASTER)
voltage and current
rectifier interface
(Board panel)

9....2096.01.
voltage and
current inverter
interface

9....2077.01.
RC +interface AC

J5

1 2
J3

J2B
1 2 3

J3R
1 2 3 4 5 6

J2R
1 2 3

J5
1 2 3 4

J6
1 2 3 4

J8
1 2 3 4

J9
1 2 3 4

J4
1 2 3 4 5 6 7 8

J3
1 2 3 4 5 6 7 8

J1
1 2

J7
1 2 3 4

J8
1 2 3 4

J9
1 2 3 4

J6
1 2 3 4 5 6 7 8

J4
1 2 3 4 5 6 7 8

J2
1 2 3 4

J1
1 2 3 4 5 6

red black

*0398

106 108 110 107 109 111

*0400

5B 6B 7B

*0398

125 126 127 128

*0392

4C
2C

*0390

100 101 102 103 104 105

*0314

from TABY-1; TABY-2; TABY-3
sheet 1 rect+st.sw.
module
(sheet 1)

135 136 137 138 139 140

*0393

red black

*0391

1B 2B 3B 4B

*0216

22B 23B 24B 25B 30B 31B

*0215

129 130 131 132 133 134

*0396

red black

*0399

*0374

From
F4-F5
(sheet 1)

From
TA IN-1;TA IN-2;TA IN-3
(sheet 1)

From
F1-F2-F3
(sheet 1)

From
TA INV-1;TA INV-2;TA INV-3
(sheet 1)

From
TA BATT
(sheet 1)

From
+ / - bus bar
(sheet 1)

From
TLI (sheet 2)

From
output filter
(sheet 2)

From
TA OUT-1;TA OUT-2;
TA OUT-3
(sheet 1)

From
output filter
(sheet 2)

from rect.
+st.sw.mod
(sheet 1)

RS 232

EPO   REMOTE

J1   J2   J3

9....2113.01.
RS232 CARD

SLOT-2
AUX

SLOT-1
MAIN

J2   J1

9....2101.01.
parallel signal
card (OPTION)

flat cable
*0310

flat cable
**0002

To J1 grafic panel control
card 2124(sheet 3)

J3   10

flat cable
*0301

to J2 parallel
card (option)
(sheet 3)

J7   20

J8   N.C

J9

J6

flat cable
**0003
To J2 grafic panel control
card 2124(sheet 3)

PARALLEL
OPTION

*0407

INTERFACE I/O
OPTION

To J6 interface
and inverter
control card
2076 (sheet 4)

UGS
INTERFACE
OPTION

*0532

J3

to J5 rectifier control
card 2075 (sheet 3)

*0357

164
165

to battery
temperature
sensor

*0407

J6

J9

9....2090.01.
INTERFACE I/O
CARD-1

J6

9....2090.01.
INTERFACE I/O
CARD-2

J9

9....2137.02.
FILTER CAN-BUS
2090 CARD

J5   J1

9....2092.02.
UGS INTERFACE
(OPTION)

J2   J4

*0532   *0532

To J8 system catd
2032 (sheet 4)

To output
PH-N
(sheet 2)

to SWOUT
sheet 2

151
251

SWOUT

to SWMB
sheet 1

161
261

SWMB

to EXTERNAL BY-PASS

*0397

OPTION PANEL

standard cable
from J2 main power
supply

standard cable
from J4 voltage
and current card

BATTERY START
OPTION

BATTERY TEMPERATURE SENSOR OPTION

On standard rectifier control card 9... 2075.01.
1-Disconet the standard cable code *0357 from J5.
2-Connect the filter code 9APMHT019.
3-Connect the cable code *0357 previus diconnect

J1   J13   J3   50   J12

9....2075.01.
rectifier control card
(Board panel)

J2   J4

J2-2   J4-2

HALOGEN LAMP

J5   J9   J11   J7   J8

NO CONNECT

J8

4
8

white   white

J4   J5

red

red

J3

NO CONNECT

PUSH BUTTON

J9   J10

SNUBBER

3

TERMINAL BOARD

red   white

1

FILTER
9APMHT019.

J5

165
164

*0357

J2-1   J4-1

to J2 mains power supply card
2120

to J4 voltage and current
card 2096

GTEC   DOC. Schematic Diagram   COD. SE-9APLB200TP-ED_Rev.00   PAG 4 / 4

OBJECT: LB200TP 6P CABINET

EDITOR: F.Mastropasqua   DATE: 28/04/2014   APPROVATION: F.Amodeo

REPLACE: SE-9APMPS200EC_REV.02

VARIATION: Output filter assembly modified,add fuses FC1..3 and FC22..31