OKI 395 & 3410 MAIN PCB, P/S AND CONTROL PANEL ISSUES

DATE: 6/6/2006 (Revised 06/27/08- dmd)

PROBLEM: OKI changed the design of their printers on several occasions and not all units use the same parts. This memo is to help explain the differences and aid in identifying the correct parts for a particular printer.

At this time, there are THREE to FIVE versions of some parts for both the 395 and 3410. Upwards of 80% of the currently installed units are version A, which use the oldest style parts. In *most* cases, the serial # of the unit is needed to determine which respective parts are needed for that particular printer. It is *possible* to retrofit several parts to make them work in any unit, so it is possible that the serial # information could yield incorrect results if that has been done in the past on that unit.
The serial # format looks something like this:

301A1234567 for VERSION A *Some units end with the letter 'K'*- in this case, **always treat it as a version A**.
301B1234567 for VERSION B
301C1234567 for VERSION C   (The 4th character is the *version #*).
On 2007 or newer units, there is a new s/n scheme: Exact details not known, but it is likely these units will be Rev C.
IN ALL CASES- best idea is to have the existing board to be replaced, in order to ensure the proper replacement part.

Parts in question:*MAIN PCB, POWER SUPPLY PCB & CONTROL PANEL*, and their respective interconnect cables.

In most cases, we simply want to get the correct part # to the customer. If the desired part is not available, the information can be used to determine what multiple parts are needed to make it work.

PART 1- For the simple purpose of which boards/panel to choose, start here:
***IF THE SERIAL # OF THE UNIT IS UNKNOWN SEE PART 3

395	Main logic	Power supply	Control panel	Cntl Pnl Cable
VERSION A (or K)	55071811 (TFCB) or 40900502 (SKI)	42312502 or 56411201	55071701	56212601
395C (color)	55071812 (TFCB) or 40900504 (SKI)	(same)		
VERSION B	40900525 (SKI)	42312502 or 56411201	42303101	56639207
395C	40900526 (SKI)	(same)		
VERSION C	40900531 (SKI) or 43440616 (SKF)	42312501	42303101	56639207
395C	40900532 (SKI) or 43440616 (SKF)	(same)		

3410	Main logic	Power supply	Control panel	Cntl Pnl Cbl
VERSION A (or K)	55061611 (CBNP) 40900402 (KUM)	42312502 or 56411201	55061401	56628402
VERSION B	40900417 (KUM)	42312502 or 56411201	42303201	56639202
VERSION C	40900420 (KUM)	42312501	42303201	56639202

<div align="center"><u>PART 2-</u></div>

<u>This section details the relationships between different versions of MAIN LOGICS and CONTROL PANELS.</u> Note that there is currently no way to adapt new control panel to old Main Logic, or vice-versa. If the main logic is changed, you MUST change the control panel and cable to match.

With MAIN LOGIC	CABLE	CONTROL PANEL
395		
Version A		
55071811/1812 or		
40900502/0504 (5mm)	56212601 (5mm)	55071701 (old -5mm)
Version B		
40900525/526 (3mm)	56639207 (3mm)	42303101 (new3mm)
Version C		
40900531/532 (3mm)	56639207 (3mm)	42303101 (new3mm)
or		
Newer Version C		
43440616 (3mm)	(SAME)	
3410		
Version A		
55061611 or		
40900402 (5mm)	56628402 (5mm)	55061401 (old 5mm)
Version B		
40900417 (3mm)	56639202 (3mm)	42303201 (new 3mm)
Version C		
40900420 (3mm)	56639202 (3mm)	42303201 (new 3mm)

Part 3 (Customer does not know unit serial #)

If the customer does not know the unit serial #, but *HAS* the Main logic board or Power supply, it MAY be possible to identify the needed board by observing the color of certain connectors on the boards. See attached photo pages.

MAIN LOGICS: (See also- page titled "395 Main Logic Notes")

VERSION A will have <u>ALL 3 BLACK CONNECTORS</u> for both the Power Supply AND Control Panel.

VERSION B will have 2 BLACK CONNECTORS for the Power Supply and 1 WHITE for the Control Panel.

VERSION C will have <u>ALL 3 WHITE CONNECTORS</u> for both the 2 Power Supply *and* 1 Control Panel .
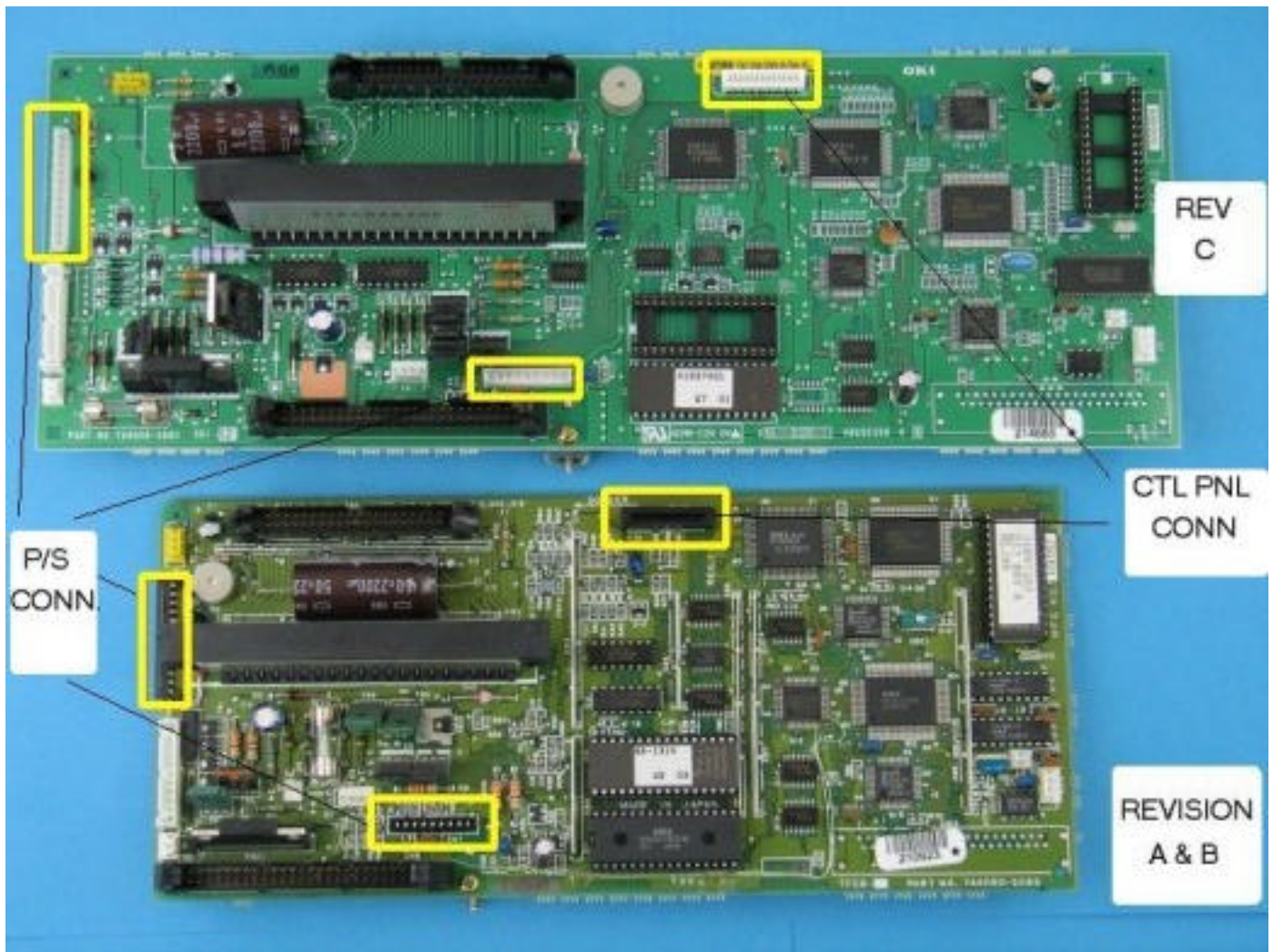
<u>POWER SUPPLIES</u>

VERSION A and B have BLACK connectors in these two locations

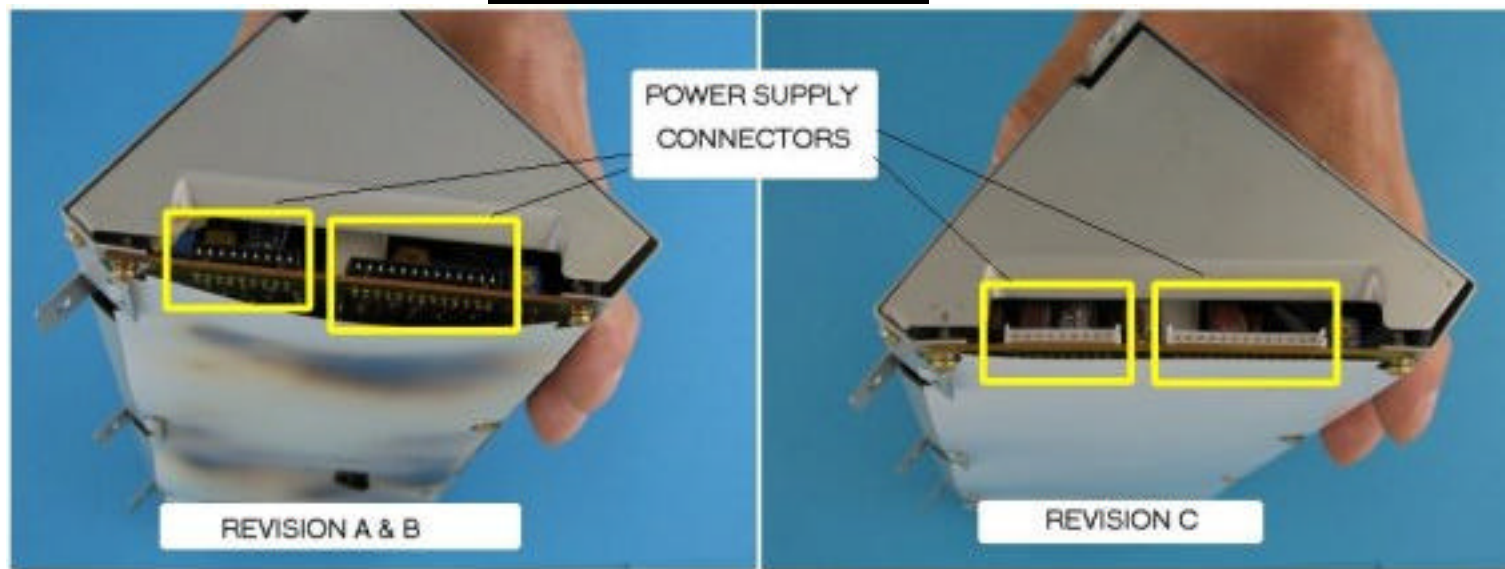VERSION C has WHITE connectors in these two locations

** IF THE CUSTOMER DOES NOT KNOW THE UNIT SERIAL #, OR DOES NOT HAVE THE BOARD TO EXAMINE, <u>THERE IS NO WAY WE CAN TELL THEM WHAT PARTS THEY NEED!</u>
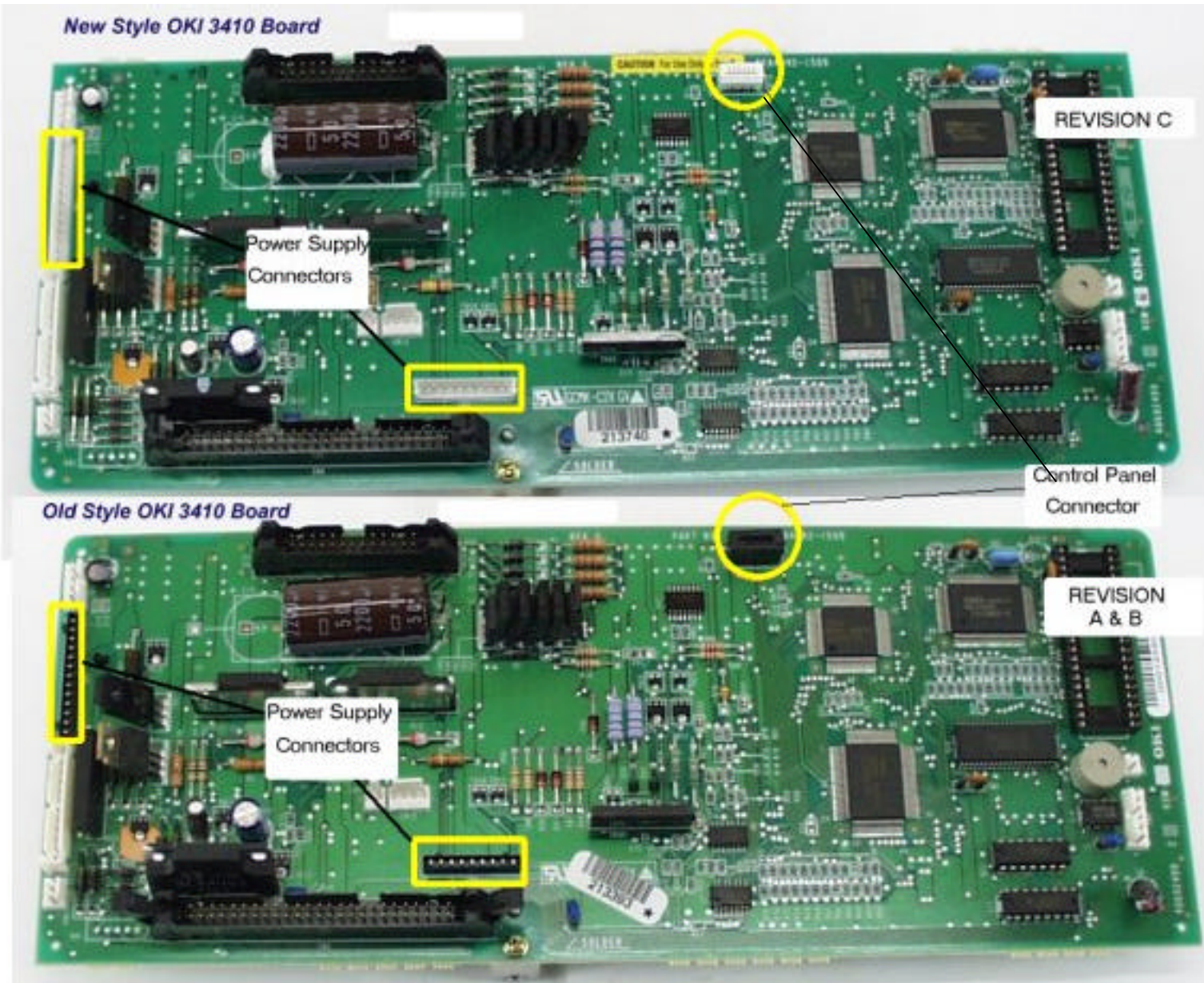
395 MAIN LOGIC

REV
C

P/S
CONN.

CTL PNL
CONN

REVISION
A & B

For REV B of Main Logic - the two Power Supply connectors will be BLACK, while the Control Panel connector will be WHITE.
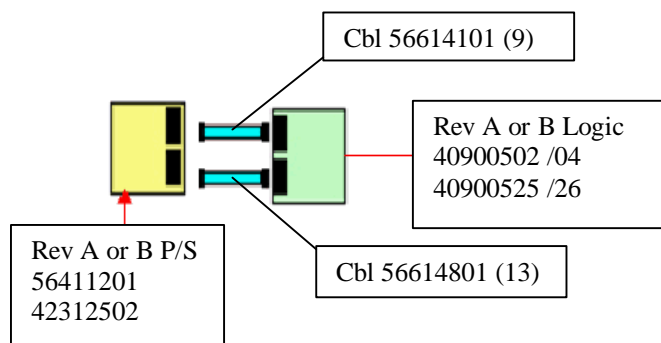
395 and 3410 POWER SUPPLY

POWER SUPPLY
CONNECTORS

REVISION A & B

REVISION C

For both rev A and B, the power supply connectors are BLACK.
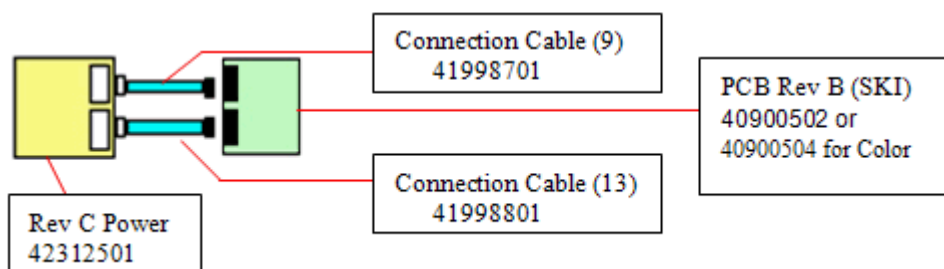On rev C, they are both WHITE

3410 MAIN LOGIC

For REV B of Main Logic -the two Power Supply connectors will be BLACK, while the Control Panel connector will be WHITE.

ML395/395C Cables, PCB and Power Supply

Cbl 56614101 (9)

Rev A or B Logic
40900502 /04
40900525 /26

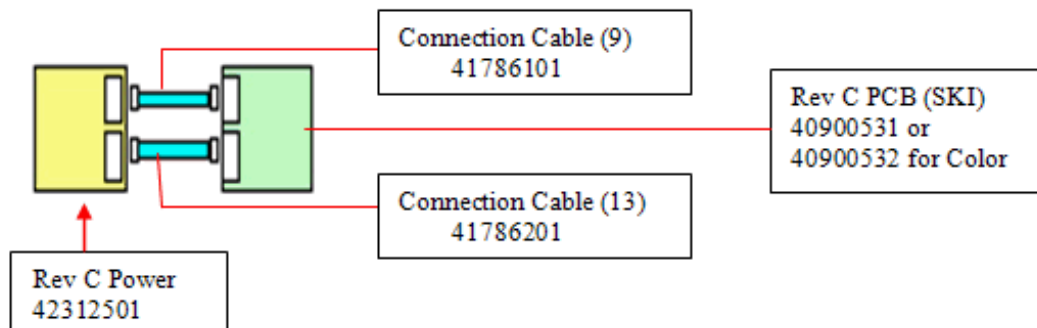Rev A or B P/S
56411201
42312502

Cbl 56614801 (13)

In order to use Revision C power supply with Revision B printers, the tech will need to order the connection cables below. (p/n 41998701 9p) and (p/n 41998801 13p)
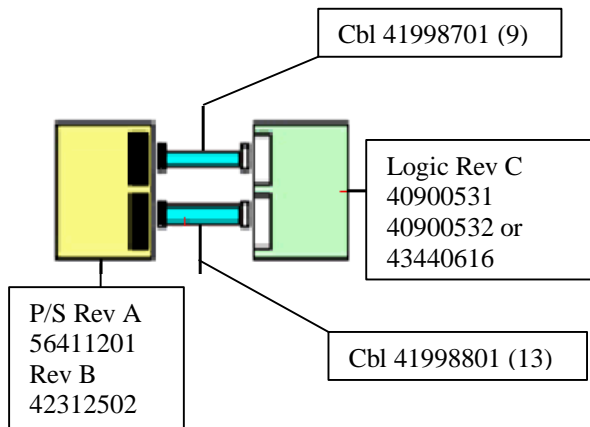
Revision C Power Supply, Cables and Rev B PCB.

Connection Cable (9)
41998701

PCB Rev B (SKI)
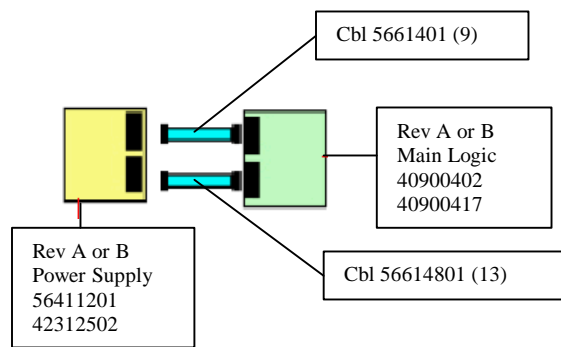40900502 or
40900504 for Color

Connection Cable (13)
41998801

Rev C Power
42312501

Revision C Power Supply and PCB and cables.

Connection Cable (9)
41786101

Rev C PCB (SKI)
40900531 or
40900532 for Color

Connection Cable (13)
41786201

Rev C Power
42312501

(May also use Newer Rev C PCB 43440616)

Rev A/B Power Supply with Rev C Logic

Cbl 41998701 (9)

Logic Rev C
40900531
40900532 or
43440616

P/S Rev A
56411201
Rev B
42312502

Cbl 41998801 (13)

3410 Power Supply, Cables and Logic PCB

Cbl 5661401 (9)

Rev A or B
Main Logic
40900402
40900417

Rev A or B
Power Supply
56411201
42312502

Cbl 56614801 (13)
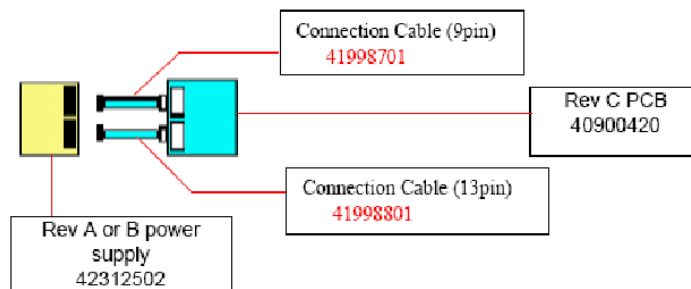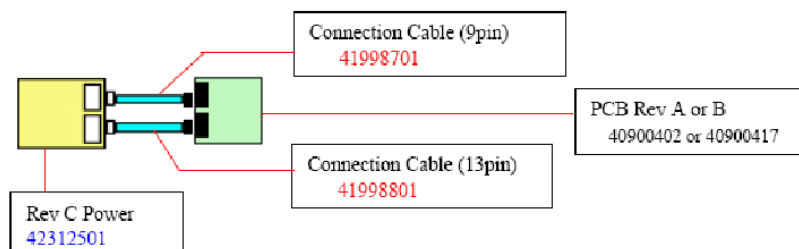
In order to use Revision A or B Power Supply with Revision C PCB, the tech will need to order the connection cables below.
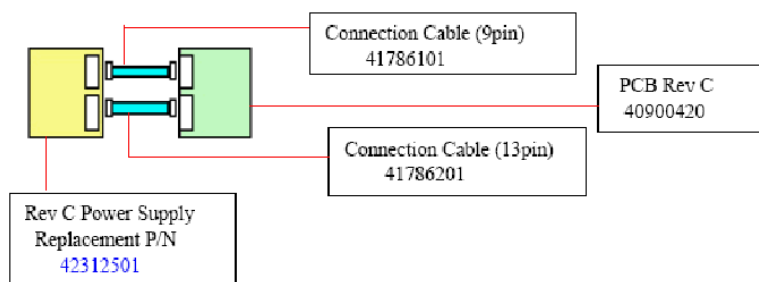(p/n 41998701 9 pin) and (p/n 41998801 13 pin)

Revision A or B Power Supply, Cables and Revision C PCB

Connection Cable (9pin)
41998701

Rev C PCB
40900420

Connection Cable (13pin)
41998801

Rev A or B power
supply
42312502

In order to use Revision C power supply with Revision A or B printers, the tech will need to order the connection cables.
(p/n 41998701 9 pin) and (p/n 41998801 13 pin)

Connection Cable (9pin)
41998701

PCB Rev A or B
40900402 or 40900417

Connection Cable (13pin)
41998801

Rev C Power
42312501

Revision C Power Supply and PCB

Connection Cable (9pin)
41786101

PCB Rev C
40900420

Connection Cable (13pin)
41786201

Rev C Power Supply
Replacement P/N
42312501

395 and 395C Main Logic Board Notes

Ask the customer for the serial number of the printer.

If the serial # has an **A** in the 4th digit, or ENDS in K, main board replacement p/n is **40900502**
(There is another version A PCB, p/n **55071811,** which is interchangeable, but we stock both under **40900502)**   This is the **most common version**, probably 75-80% of all printers.
This board will either have the mnemonic TFCB in the lower right corner, or the mnemonic SKI in the lower left. The connectors for the control panel, and both the power supply connectors will be BLACK)

If the serial # has a **B** in the 4th digit, main board replacement# is **40900525** (This version is very rare)
The board will have the mnemonic SKI in the lower left. The control panel connector will be WHITE, and the 2 power supply connectors BLACK

If the serial # has a **C** in the 4th digit, main board replacement p/n is **40900531 (SKI) or 43440616 (SKF)**
(This version is mainly seen in the *newest* printers, possibly 15 -20% of existing units)
The board will have the mnemonic SKI or SKFin the lower left. The(1) control panel connector and (2) power supply connectors willall be WHITE.

The part # is the *same* for both 395 and 395C (color) for each respective revision.
There is a jumper that needs installed for 395C color at location **SP3**

The part numbers referenced above do not appear anywhere on the board.
However the Letter mnemonic may be present i.e. *TFCB SKI SKF* etc
With this information, and the colors of the connectors, the exact p/n can be determined.

TFCB is always a version A *TFCB* Part# is 55071811, and is interchangeable with the other version A
SKI board, p/n 40900502.   We stock only under the 40900502, but may be either board.
SKI may be an A, B or C, depending on the connector colors
SKF is always a Rev C.

FIRMWARE, while there may be different revisions, is the same on all, even 395C

There is an *older* version *TFCB* (which can be identified by surface mount uP at location Q11– if the # on it is 80C154, requires Extra prom chip.   If 83C154, has it built in, no extra prom required.

3410 Main Logic Boards

If the serial # has an **A** in the 4th digit, or ENDS in K, main boards replacement p/n is **40900402**
(There is an interchangeable old-style CBNP p/n 55061611, but both stocked as 40900402)
*(**Version A** has 2 BLACK power supply connectors, and 1 BLACK control panel connector)*

If the serial # has a **B** in the 4th digit, main board replacement# is **40900417** (*This version very RARE*)
*(**Version B** has 2 BLACK power supply connectors, and 1 WHITE control panel connector)*

If the serial # has a **C** in the 4th digit, main board replacement# is **40900420**
*(**Version C** has 2 WHITE power supply connectors, and 1 WHITE control panel connector)*

Except for the old CNBP, the 4090xxxx part #'s are labeled as "KUM", and are physically exactly the same, except for the connectors mentioned