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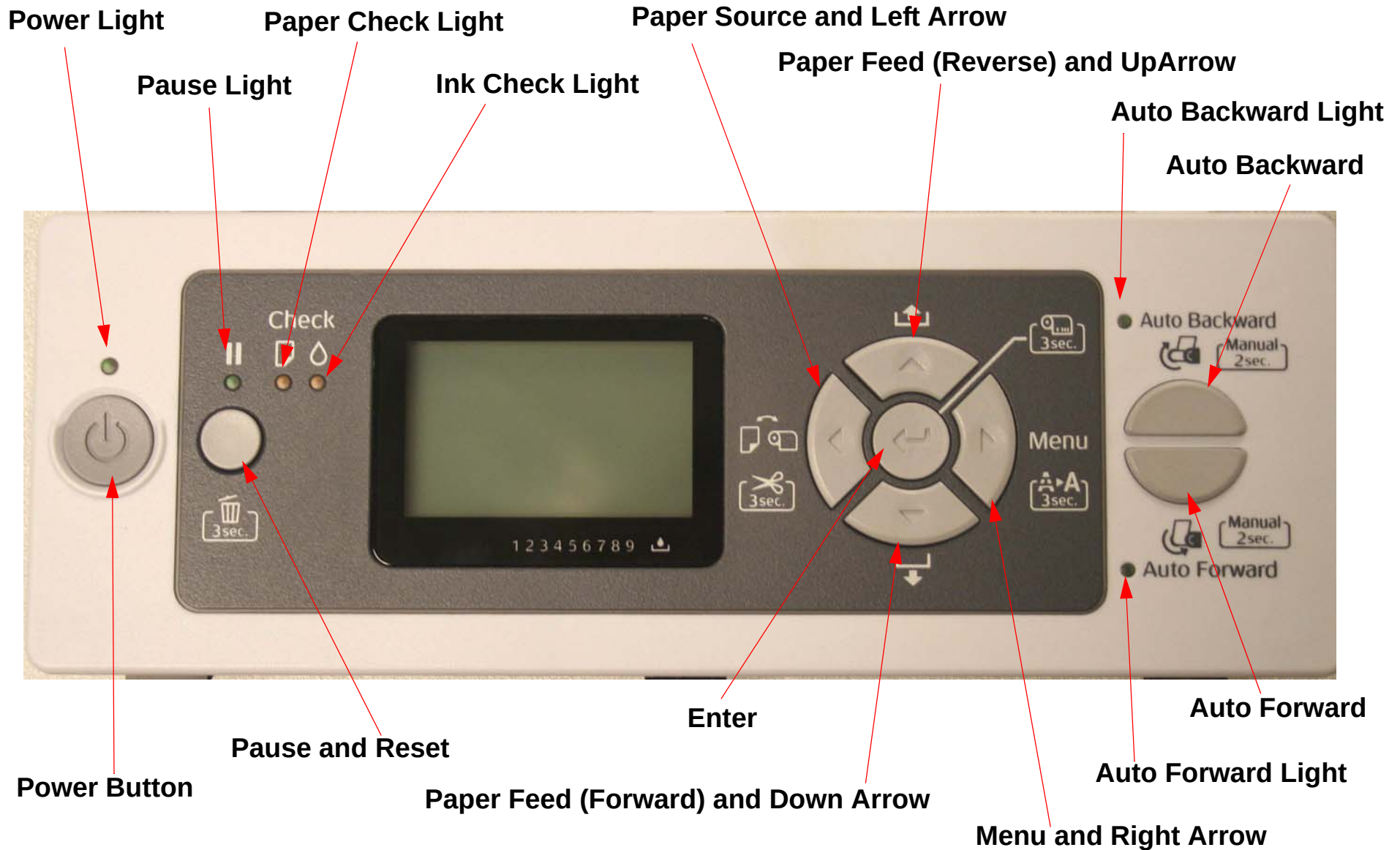
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Control Panel Map



Printers LCD Display

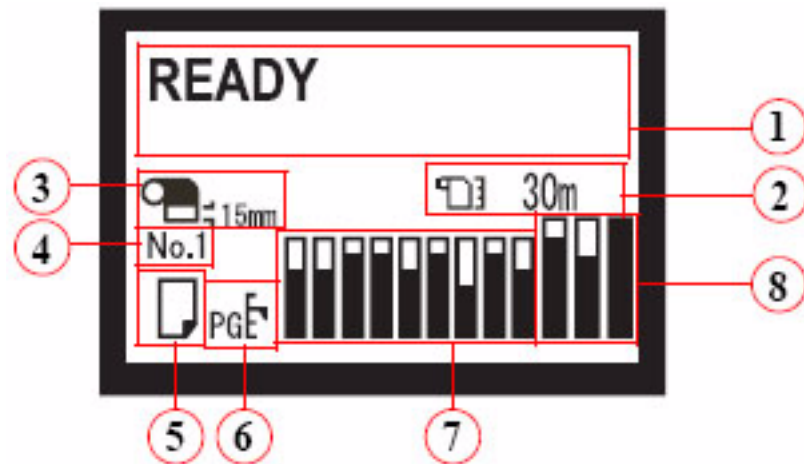


Figure 1-5. LCD (Normal indication)

1. **Printer Status**
2. **Remaining Roll Paper**
3. **Roll Paper Margin Setting**
4. **Custom Paper Setting**
5. **Paper Type and Roll Paper Auto Cut Setting**
6. **Platen Gap Setting**
7. **Ink Levels**
8. **Waste Ink Cartridge Level**

SERVICEMAN MODE: **Down**, **Right**, and **Pause**, at power on.

SELF TESTING: **Down**, **Right**, and **Enter**, at power on.

Parameter Backup and Restore Mode: **Down**, **Right**, and **Pause**, at power on.

F/W DOWNLOAD MODE: **Up**, **Down**, **Left**, and **Right**, at power on.

Maintenance Mode 1: **Pause**, at power on.

User Menu: Press the **Menu** button when
the printer displays **Ready**

1. PRINTER SETUP.

PLATEN GAP: *STANDARD, NARROW, WIDE,
WIDER, WIDEST
PAGE LINE: *ON, OFF
ROLL PAPER MARGIN: *DEFAULT, TOP/BOTTOM
15mm, TOP 35/BOTTOM
15mm,15mm, 3mm
PAPER SIZE CHK: *ON, OFF
PAPER SKEW CHECK: *ON, OFF
REFRESH MARGIN: *ON, OFF
AUTO NOZZLE CHECK: ON:PERIODICALLY*,
ON:EVERY JOB, OFF
PRINT NOZZLE PATTERN: OFF*, ON:EVERY PAGE,
ON EVERY 10 PAGES,
INITIALIZE SETTINGS: EXEC

2. TEST PRINT.

NOZZLE CHECK: PRINT
STATUS SHEET: PRINT
NETWORK STATUS SHEET: PRINT
JOB INFORMATION: PRINT
CUSTOM PAPER: PRINT

3. MAINTENANCE

CUTTER ADJUSTMENT: EXEC
CUTTER REPLACEMENT: EXEC
POWER CLEANING: EXECUTE
CLEAN FOR EACH COLOR: C/VM, PK, MK/Y, LLK/LK,
VLM/LC
CLOCK SETTING: (mm/dd/yy hh:mm)
CONTRAST ADJUSTMENT: (nn)

4. PRINTER STATUS.

VERSION: (CURRENT FIRMWARE)
PRINTABLE PAGES: (FOR EACH COLOR)
(nnnnnn)PAGES
INK LEVEL: (FOR EACH COLOR) (nnn%)
MAINTENANCE TANK: LEFT (nnn%), CENTER
REAR (nnn%), RIGHT (nnn%)
USAGE COUNT: INK (nnnn.n)ML, PAPER (nn)ft (nn)
inch
CLEAR USAGE COUNT: INK:EXEC PAPER:EXEC
JOB HISTORY: N0.(n) INK:(n)ml, PAPER:(nnnn)cm2
TOTAL PRINTS: (n) PAGES
EDM STATUS: ENABLED, LAST UPLOADED (mm/
dd/yy hh:mm)

5. PAPER SETUP.

PAPER TYPE: Photo Paper, Proofing Paper, Fine Art Paper, Matte Paper, Plain Paper, Others, Custom Paper, No Paper Selected

ROLL PAPER REMAINING (*This Menu is only active when paper is not loaded and the Paper Lever is closed*)

REMAINING PPR SETUP: *OFF, ON:PRINT EVERY PAGE, ON: AT ROLL EXCHANGE

ROLL PAPER LENGTH: (nnn)ft (**REMAINING PPR SETUP must be on to enable**)

ROLL LENGTH ALERT: (nn)ft (**REMAINING PPR SETUP must be on to enable**)

CUSTOM PAPER: Paper NO. (1-10)

PAPER TYPE: Photo Paper, Proofing Paper, Fine Art Paper, Matte Paper, Plain Paper, Others

PLATEN GAP: NARROW, STANDARD, WIDE, WIDER, WIDEST

THICKNESS PATTERN: PRINT

CUT METHOD: *STANDARD, THIN PAPER, THICK PAPER FAST, THICK PAPER SLOW

PAPER FEED ADJUST: (n.nn)%

DRYING TIME: (n.n)sec

PAPER SUCTION: *STANDARD, -1, -2, -3, -4

6. Head Alignment.

PAPER THICKNESS: SELECT PAPER TYPE: (Photo Paper, Proofing Paper, Fine Art Paper, Matte Paper, Plain Paper, Others) SELECT THICKNESS: (N)mil

ALIGNMENT: AUTO (UNI-D, BI-D 2-COLOR, BI-D All, BI-D #1, BI-D #2, BI-D #3, BI-D #3, BI-D #4) MANUAL (UNI-D, BI-D 2-COLOR, BI-D All,)

7. NETWORK SETUP: (*DISABLE, ENABLE)

IP ADDRESS SETTING: AUTO, PANEL,

BONJOUR: *ON, OFF

INIT NETWORK SETTING: EXECUTE

Parameter Backup and Restore Mode

Release the **Paper Lever**, disengage **9 Ink Cartridges**, remove the **3 Maintenance Tanks**, hold the **Down, Right,** and **Pause** buttons and turn on the **Printer**. The Printer will display **MENU: SELF TESTING**.

*Note: If the backup procedure fails, try re-booting the Printer and letting it come **Ready**. Then try the backup / restore procedure in **READY** mode.*

*Note: Parameter Backup can also be performed in **F/W Download** Mode. Parameter Restore can not.*

F/W Download Mode

Hold the **Up, Down, Left,** and **Right** buttons and turn on the power. The Printer will display **F/W Download**.

Maintenance Mode 1: Press and hold the **Pause** button and turn on the Printer.

LANGUAGE: *ENGLISH, JAPANESE, FRENCH, GERMAN, ITALIAN, PORTUGUE, SPANISH, DUTCH
(Panel Language)

UNIT: *FEET/INCH, METER (Set's the unit of measure that the printer displays)

CUT PRESSURE: *100% (0%-150%) (Adjusts the Paper Cutter pressure)

SS CLEANING: EXEC (Super Strong Cleaning)

PWR ON ROLL PPR FEED: *ON, OFF (On = Feeds the paper 3" lower, when auto cut is off)
(Off = Does not feed the paper 3" lower, when auto cut is off)

SYLON MODE: *OFF, ON (Strobes the Ink Bay Lights while printing)

DEFAULT PANEL: EXEC (Resets to Factory Default all of the User Menus)

INK INFO MENU: (FOR EACH COLOR) MANUFACTURER, COLOR, INK TYPE, INK CAPACITY, INK LEVEL,
PRODUCTION DATE, EXPIRATION DATE, INK LIFE, INK AGE (CSIC information, for each
ink cartridge)

Custom:*0 (0 - 9)

ServiceMan Mode: Press and hold the **Down**, **Right**, and **Pause** buttons, and turn on the Printer

Note: *SERVICEMAN MODE turns on the USB Port even if there is an error condition.*

Note: *The printer must be displaying SELF TESTING in order to work properly with the Adjustment Wizard.*

SELF TESTING:

Test:

Version: F/W: F(nnnnnnnnn.nn.nnnn) (Displays the current firmware version)

Panel: Key, LCD, LED, Ink LED(Button, LCD, and LED tests for the control panel)

Sensor: Paper Thick: 00, 01,10,11 (Paper Thickness Sensor test)

Paper Lever: Down, Up (Paper Release Sensor test)

Ink Button: Off/Off Ink (Cover Release Button Test)

InkCvr: Close/Close (Ink Cover Sensor Test)

Cover: Close/Close (Front Cover Sensor test)

MTank: On, ON, ON(CSIC Contact Test)

INK NOT: 1,2,3,4,5,6,7,8 (Ink Cartridge Sensor test for 9 Ink Bays)

RearAD: (nnn nnn) (Rear Paper Sensor test)

Auto Reel Sens.: On, Off (Auto Pick Up Reel Paper Slack Sensor Test)

Auto Reel Conect: On

Head Temp: (nn)C (Displays the current Print Head temperature in degrees centigrade)

Drv. Temp: (nn)C (Displays the current Print Head Driver temperature in degrees centigrade)

AutoChk: [Enter]Start (**Do Not use very dangerous**) *this means you Dennis Habbley*

Encoder: CR (nnnn) (Carriage Encoder test. Counts up, moving away from home position)

PF (nnnn) (Paper Feed Encoder test. Counts up, as the paper advances.)

Fan: Paper(ALL): (Fan test for all paper suction fans)

Paper(Duty): (200% - 0%) (Tests the fan suction for all paper suction fans)

Paper1: (Fan test for paper suction fan #1 (Right Side Fan))

Paper2: (Fan test for paper suction fan #2 (Left Side Fan (Center Fan on 9800)))

Paper3: (Fan test for paper suction fan #3 (Left Side Fan))

HT Fan: (Fan test for the Head Driver Cooling Fan)

Error History (list of past errors)

CSIC: MTANK R/C/L

Cut Pressure: (0-100%)(approximately 55%)

Actuator2: Cutter Sol: [Enter], Start (Tests the Cutter Solenoid)

InkCover Sol.: [Enter], Start (Tests the Ink Cover Solenoids)

LeverLock Sol.: [Enter], Start (Tests the Lever Lock Solenoid)

Ink Press Motor: [Enter], Start (Ink System Pressure Motor)

Select Valve: [Enter], Start

Cap Motor: [Enter], Start (Tests the Cap Motor)

Auto Reel Motor: [Enter], Start (Tests the Auto Take Up Reel Motor)

Edge Sns Lvl: [Enter], Start (Sets the black level of the Edge Detector)

Cap Uncap: UnCap, Cap

Adjustment

PG Adjust: Uncap, Cap (Sets the platen gap to standard and allows capping/uncapping of the Carriage).

AID PG: [Enter]Start (Measures the distance between the Nozzle Plated and the Flushing Box)

Fan: Paper(ALL)(Runs all Suction Fans), Fan Adjust *0% (-10% to +10%) (Adjusts Suction Fans)

Paper: Paper Thick 00, 01, 10, 11(Displays the output from the Paper Thickness Sensors)

RearAD: [Enter]Start (nnn nnn nnn) (For adjusting the Rear Paper Sensor)

Init.Fill: [Enter]Start (Starts a initial fill)

Nozzle Check: Output Pattern: (Standard Nozzle Check)

Nozzle Alignment: Output Pattern: [Enter] Print, PG Select: 0.8mm, 1.2mm, 1.6mm, 2.1mm (Service nozzle check, displays Firmware Version)

Cutter: [Enter] Start:(Tests paper cutting)

Rear Sens.Pos: Set Cut Sheet Paper(Calibrates the EOF position for cut sheet media)

InkCover Sol.: [Enter] Start (Tests in Ink Cover Solenoid)

Head Slant : CR, PF, Uncap, Cap (For adjusting Print Head rotation and camber)

IM Sensor: [Enter] Print(Adjusts sensitivity of the Edge Detector Sensor and the Ink Mark Sensor)

Bellesta Pos.Adj.: [Enter] Start, Bellesta Pos. Confirm: [Enter], Start (Platen Position Adjustment)

Check Skew: Please Set Paper (Tests for Paper Skewing)

Feed Adj.+T&B: [Enter] Print(Performs the 980mm, Top, Bottom, and Side Margin adjustments)

Gap Adj: Auto, Manual Uni-D, Manual Bi-D PG1.6, Manual Bi-D PG0.8, (Auto and Manual Bi-D/ Uni-D)

AID: [Enter] Start (Tests the Auto Ink Detection system)

Print Adj. Variable1: [Enter] Print (Prints the numeric adjustment variables currently set)

Print Adj. Variable2: [Enter] Print (Prints the numeric adjustment variables currently set)

Clean Head: Remove Ink, Sucktion Wiping

Print Head Exchange: Drain, Head Exchange

SELF TESTING: Press and hold the **Down**, **Right**, and **Enter** buttons and turn on the Printer.

Test:

Version: F/W: F(nnnnnnnnn.nn.nnnn) (Displays the current firmware version)

Panel: Key, LCD, LED, Ink LED(Button, LCD, and LED tests for the control panel)

Sensor: Paper Thick: 00, 01,10,11 (**Paper Thickness Sensor test**)

Paper Lever: Down, Up (Paper Release Sensor test)

Ink Button: Off/Off

InkCvr: Close/Close

Cover: Close, Open (Cover Sensor test)

MTank: On, ON, ON(CSIC Contact Test)

INK NOT: 1,2,3,4,5,6,7,8,9 (Ink Cartridge Sensor test for 9 Ink Bays)

RearAD: (nnn nnn) (Rear Paper Sensor test)

Auto Reel Sens.: On, Off

Auto Reel Conect: On

Head Temp: (nn)C (Displays the current Print Head temperature in degrees centigrade)

Drv. Temp: (nn)C (Displays the current Print Head Driver temperature in degrees centigrade)

AutoChk: [Enter]Start (**Do Not use very dangerous**) *this means you Dennis Habbley*

Encoder: CR (nnnn) (Carriage Encoder test. Counts up, moving away from home position)

PF (nnnn) (Paper Feed Encoder test. Counts up, as the paper advances.)

Fan: Paper(ALL): (Fan test for all paper suction fans)

Paper(Duty): (200% - 0%) (Tests the fan suction for all paper suction fans)

Paper1: (Fan test for paper suction fan #1 (Right Side Fan))

Paper2: (Fan test for paper suction fan #2 (Left Side Fan))

Paper3: (Fan test for paper suction fan #3 (Left Side Fan))

HT Fan: (Fan test for the Head Driver Cooling Fan)

Error History (list of past errors)

CSIC: MTANK R/C/L

Cut Adj.: (0 - 100%) (approximately 55%)

Actuator2: Cutter Sol: [Enter], Start (Tests the Cutter Solenoid)

InkCover Sol.: [Enter], Start (Tests the Ink Cover Solenoids)

LeverLock Sol.: [Enter], Start (Tests the Lever Lock Solenoid)

Ink Press Motor: [Enter], Start (Ink System Pressure Motor)

Select Valve: [Enter], Start

Cap Motor: [Enter], Start (Tests the Cap Motor)

Auto Reel Motor: [Enter], Start (Tests the Auto Take Up Reel Motor)

Edge Sns Lvl: [Enter], Start (Sets the black level of the Edge Detector)

Cap Uncap: UnCap, Cap

Adjustment:

Input HeadRank: (Does not function, Japanese Bar Code Only) (QR Code)

Paper: Paper Thick 00, 01, 10, 11 (Displays the output from the Paper Thickness Sensors)

RearAD: [Enter]Start (nnn nnn nnn) (For adjusting the Rear Paper Sensor)

Init.Fill: [Enter]Start

Nozzle Check: Output Pattern: (Standard Nozzle Check)

Nozzle Alignment: Output Pattern: [Enter] Print, PG Select: 0.8mm, 1.2mm, 1.6mm, 2.1mm (Service nozzle check, displays Firmware Version, displays Head Rank)

Cutter: [Enter] Start: (Cut position check)

Fan: Paper(ALL) (Runs all Suction Fans), Fan Adjust *0% (-10% to +10%) (Adjusts Suction Fans)

Rear Sens.Pos: Set Cut Sheet Paper (Calibrates the EOF position for cut sheet media)

InkCover Sol.: [Enter] Start

PG Adjust: Uncap, Cap

Nozzle Check: Output Pattern: Cleaning:CL1, Cleaning:CL2, Cleaning:CL3 (Standard Nozzle Check)

Head Slant:

AID PG: [Enter]Start

Nozzle Check: Output Pattern: Cleaning:CL1, Cleaning:CL2, Cleaning:CL3(Standard Nozzle Check)

AID: [Enter] Start

IM Sensor: [Enter] Print(Adjusts sensitivity of the Edge Detector Sensor and the Ink Mark Sensor)

Check Skew: Please Set Paper

Feed Adj.+T&B: [Enter] Print(Performs the 980mm, Top and Bottom Margin adjustments)

Bellesta Pos.: [Enter] Start, Bellesta Pos.Adj Confirm: [Enter], Start

Nozzle Check: Output Pattern: Cleaning:CL1, Cleaning:CL2, Cleaning:CL3(Standard Nozzle Check)

Gap Adj: Auto, Manual Uni-D, Manual Bi-D PG1.6, Manual Bi-D PG0.8, (Auto and Manual Bi-D/ Uni-D)

Print Adj. Variable1: [Enter] Print (Prints the numeric adjustment variables currently set)

Print Adj. Variable1: [Enter] Print (Prints the numeric adjustment variables currently set)

Clean Head: Remove Ink, Sucktion Wiping

Counter Clear: (Clears a variety of counters)(Do not use)

Cleaning:

Std. CL1 (5.3ml)

Std. CL2

Std. CL3

Parameter:

Initialize:

All: Initialize OK? (Resets all of the following counters at once)

PF Resolution: Initialize OK? (Resets this counter only)

Head Record: Initialize OK? (Resets this counter only)

Wiping Record: Initialize OK? (Resets this counter only)

Waste Record: Initialize OK? (Resets this counter only)

CRmot Record: Initialize OK? (Resets this counter only)

PFmot Record: Initialize OK? (Resets this counter only)

Lever Record: Initialize OK? (Resets this counter only)

Cover Record: Initialize OK? (Resets this counter only)

Ink Cover Record: Initialize OK? (Resets this counter only)

Cutter Record: Initialize OK? (Resets this counter only)

Update: InkParameter: Init. Fill: (Set, Reset) (Reset, turns off the initial fill)

RTC: (mm/dd/yy hh:mm)

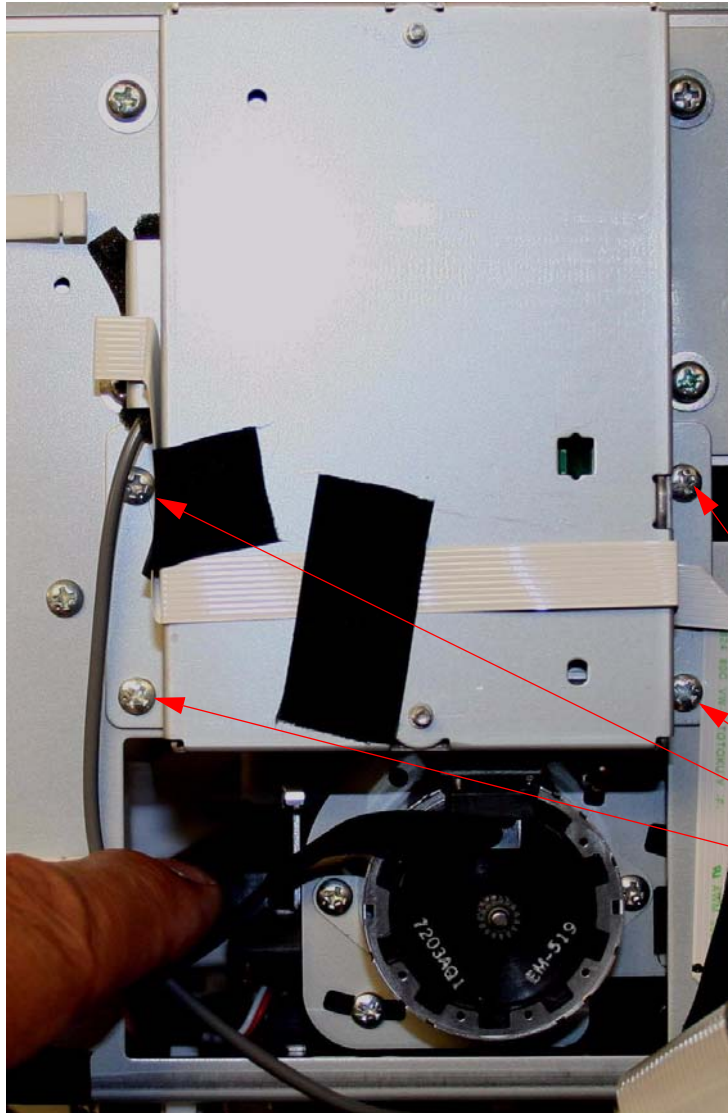
FunctionSelect: PulseMotorParam: Param0, Param1, Number of InkPress:3, 4

Display: Address: (nnnn)(Used for displaying data at specific RAM addresses)

Component Replacement

Board (AID) Removal

1. Remove the ***Right Side Cover***.
2. Remove **4 Screws** that fasten the ***AID Board Assembly*** to the top of the ***Cleaning Unit***.



Remove **4 Screws**.

3. Turn over the **AID Board Assembly**, and unplug **2 Cables** that connect it to the **Printer**.



1. Turn over the **AID Board Assembly**.

2. Unplug **2 Cables**.

4. Remove **3 Screws** that fasten the **AID Board** to the **Case**, and lift out the **Board**.



1. Remove **3 Screws**.



2. Lift out the **AID Board**.

Board (Main) Removal

Note: *11880 Main Board Part # 2113528 (the part # is stamped on the board)*

Main Board Removal (Overview)

- Back up the **Printer's Parameters**.
- Remove the **Rear Cover**.
- Unplug the **Cables**.
- Remove the **Screws**.
- Remove the **Main Board**.
- Remove the **Ethernet Cover** from the **Main Board**.
- Remove the **EDM SIMM**.

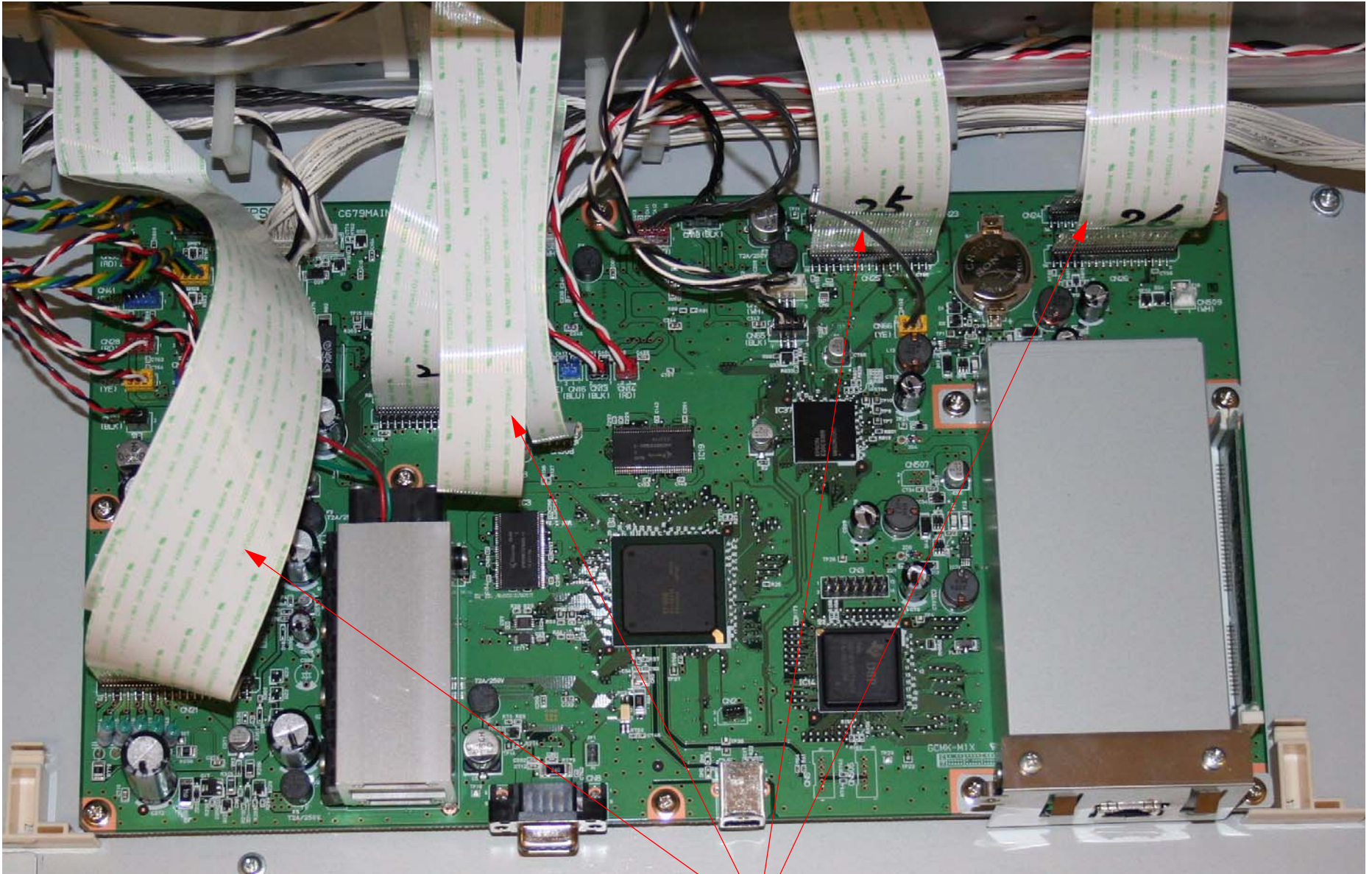
Main Board Removal (Detail)

1. Back up the **Printer's** parameters using the Parameter Backup / Restore Utility (**Nvram.exe**)

Note: *If the Printer's parameters can not be "backed up", print out the Print Head Calibration value (Head Rank). The Print Head Calibration value is printed on the Service Level Nozzle Check (ServiceMan Mode: Self Testing: Adjustment: Check Nozzle).*

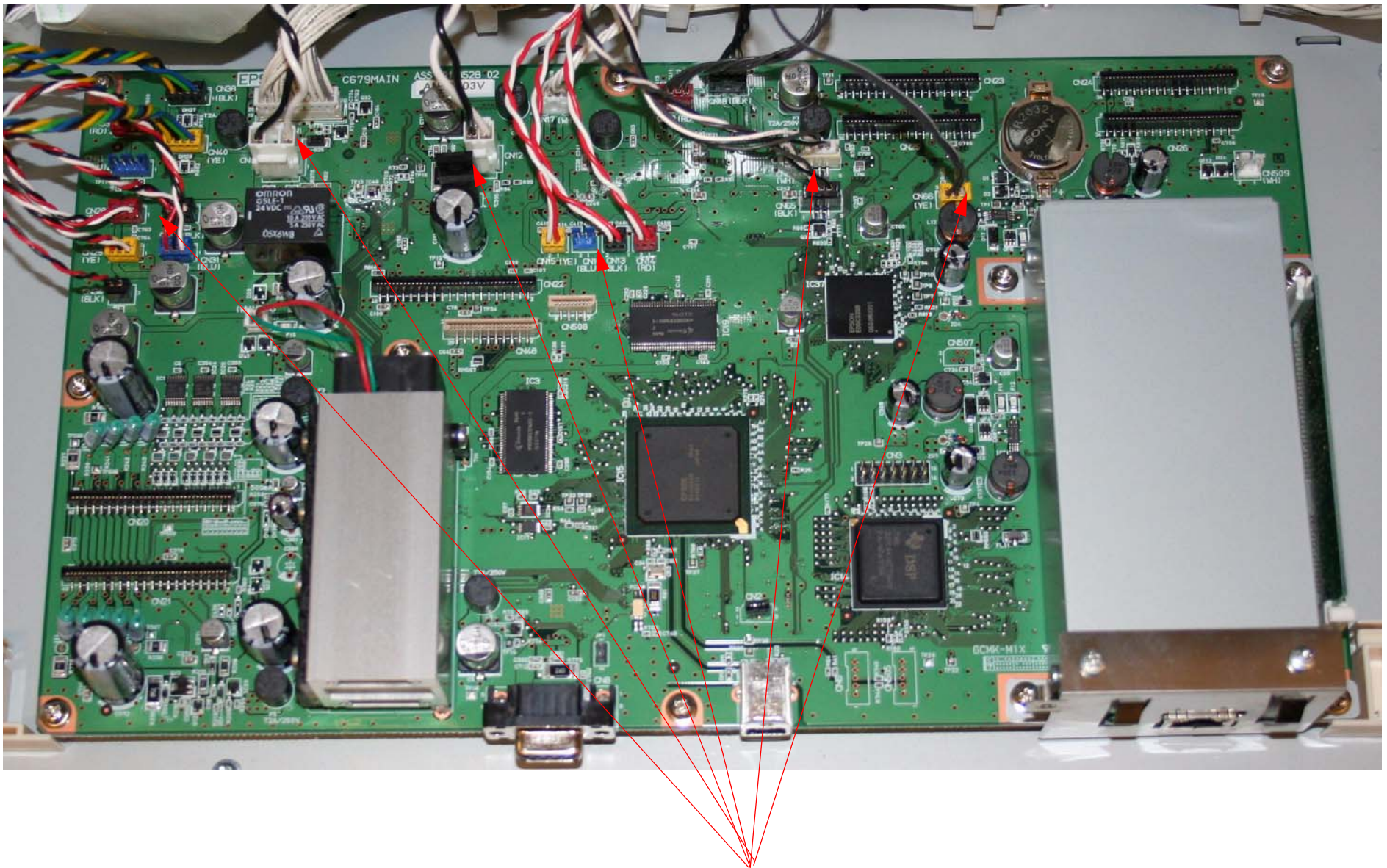
2. Turn off the **Printer** and **UNPLUG from AC**.
3. Remove the **Cover (Rear)**.

4. Unplug the **10 Foil Cables** that attach the **Main Board** to the **Printer**.



Unplug **10 Foil Cables**.

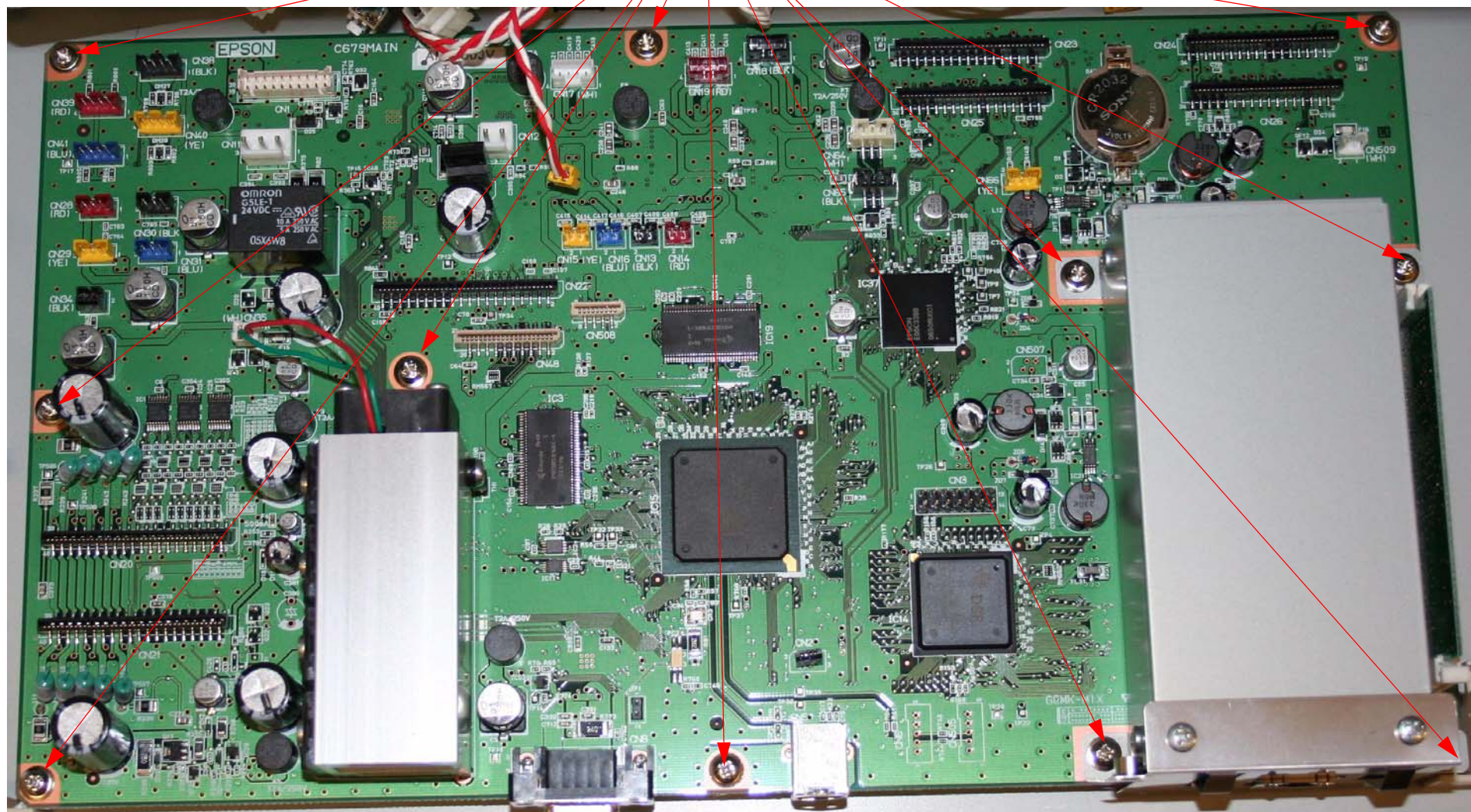
5. Unplug the **19 Wired Cables** that attach the **Main Board** to the **Printer**.



Unplug **19 Wired Cables**.

6. Remove **11 Screws** that fasten the **Main Board** to the **Printer**.

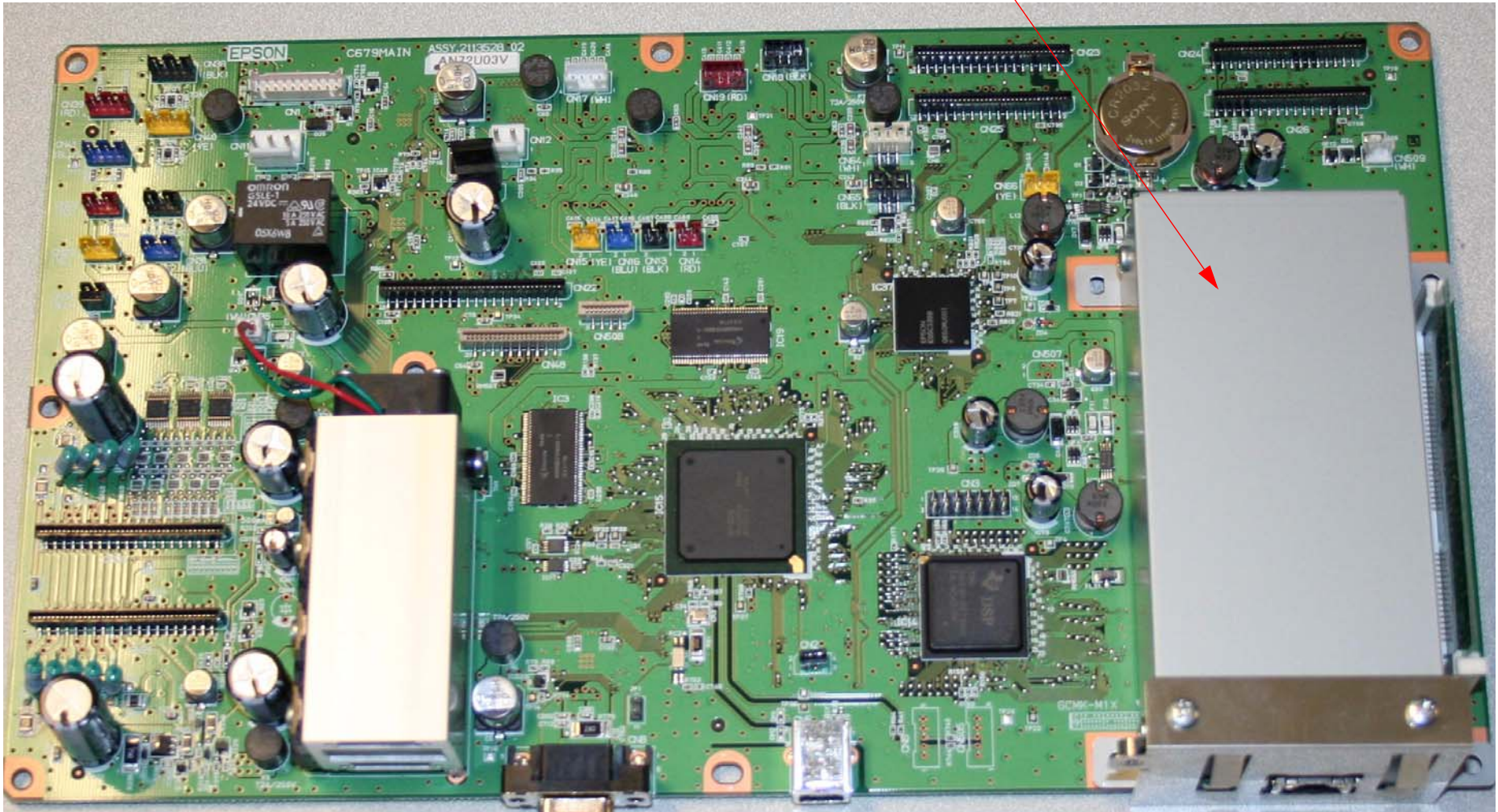
Remove **11 Screws**



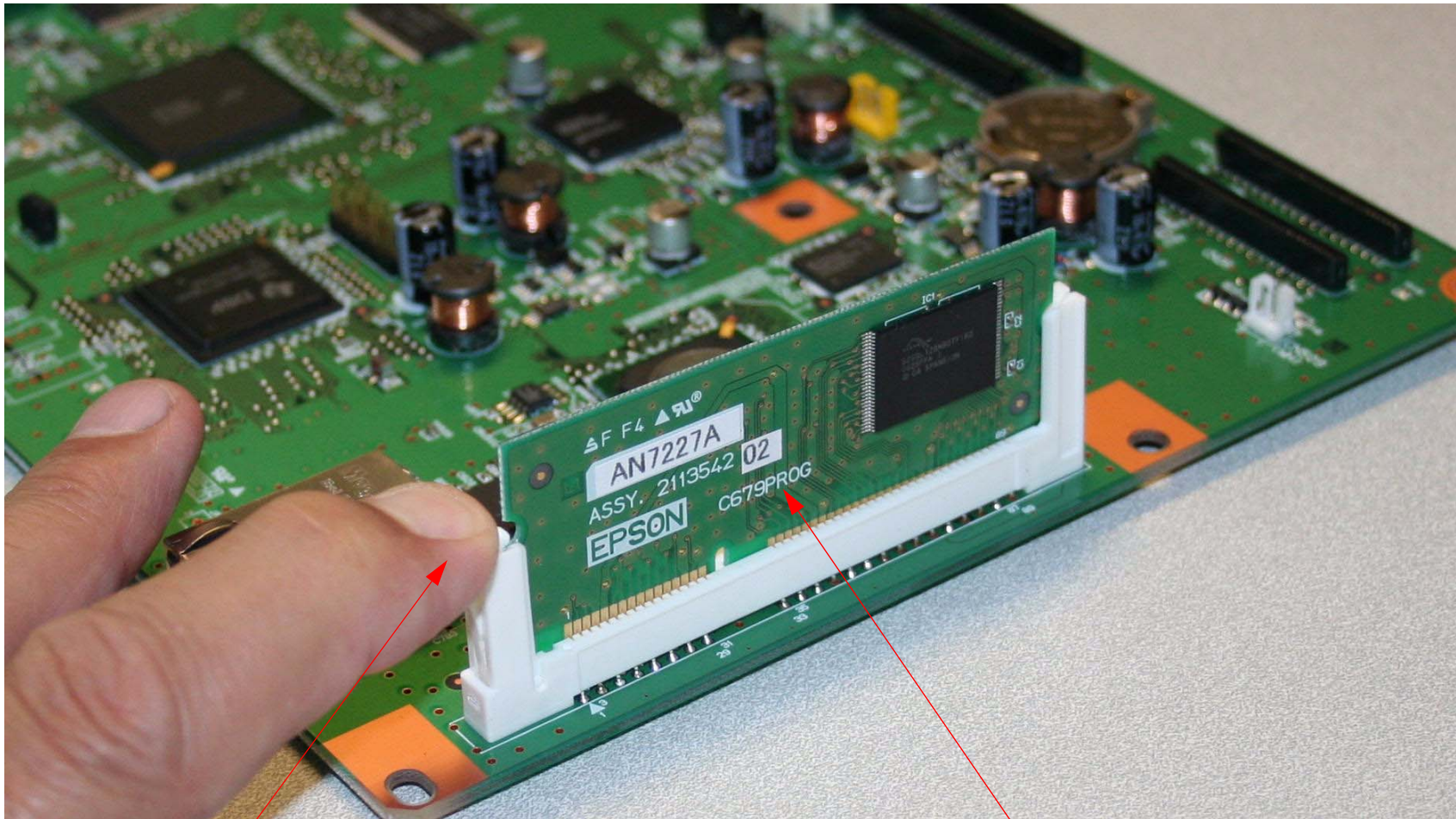
7. Lift out the **Main Board**, and separate the **Ethernet Cover** from the **Board**.

1. Lift out the **Main Board**.

2. Separate the **Ethernet Cover** from the **Board**.



8. Remove the **EDM SIMM** from the **Main Board**.



1. Press here to release the **EDM SIMM**.

2. Lift out the **EDM SIMM**.

Board (Main) Installation

Note: *11880 Main Board Part # 2113528 (the part # is stamped on the board)*

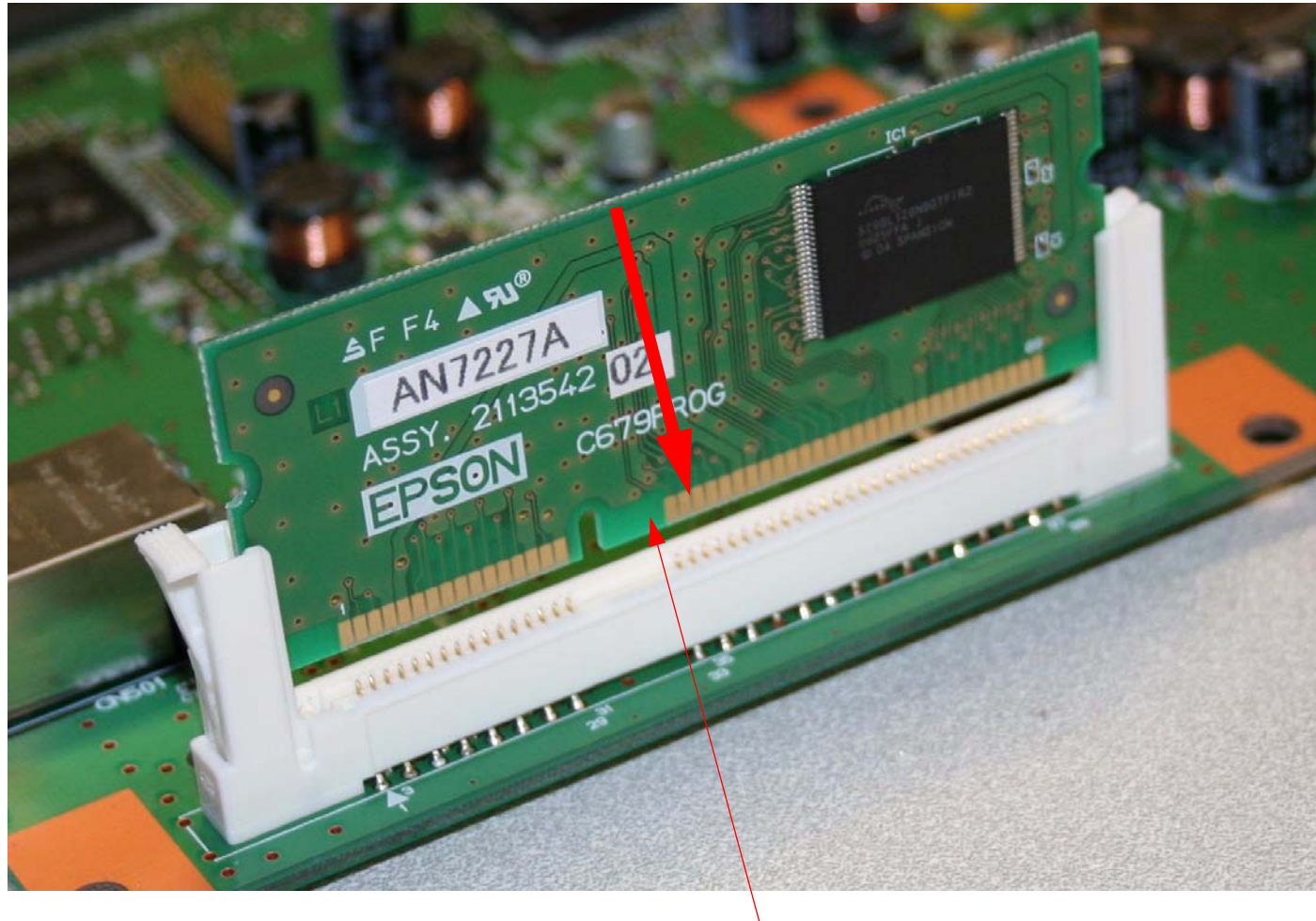
Main Board Installation (Overview)

- Install the **EDM SIMM** on the **New Main Board**
- Install the **Main Board**.
- Install the **Ethernet Cover** onto the **Main Board**.
- Install the **Screws**.
- Plug in the **Cables**.
- Upload **Firmware**.
- Install the **Printer's Parameters**.
- Perform the **RTC&USBID Adjustment**.
- Install the **Rear Cover**.

Main Board Installation (Detail)

1. Compare the **New Main Board** to the **Old Main Board**. Verify that the **Components**, **Brackets**, and **Part Numbers** match.

2. Install the **EDM SIMM** onto the **Main Board**.

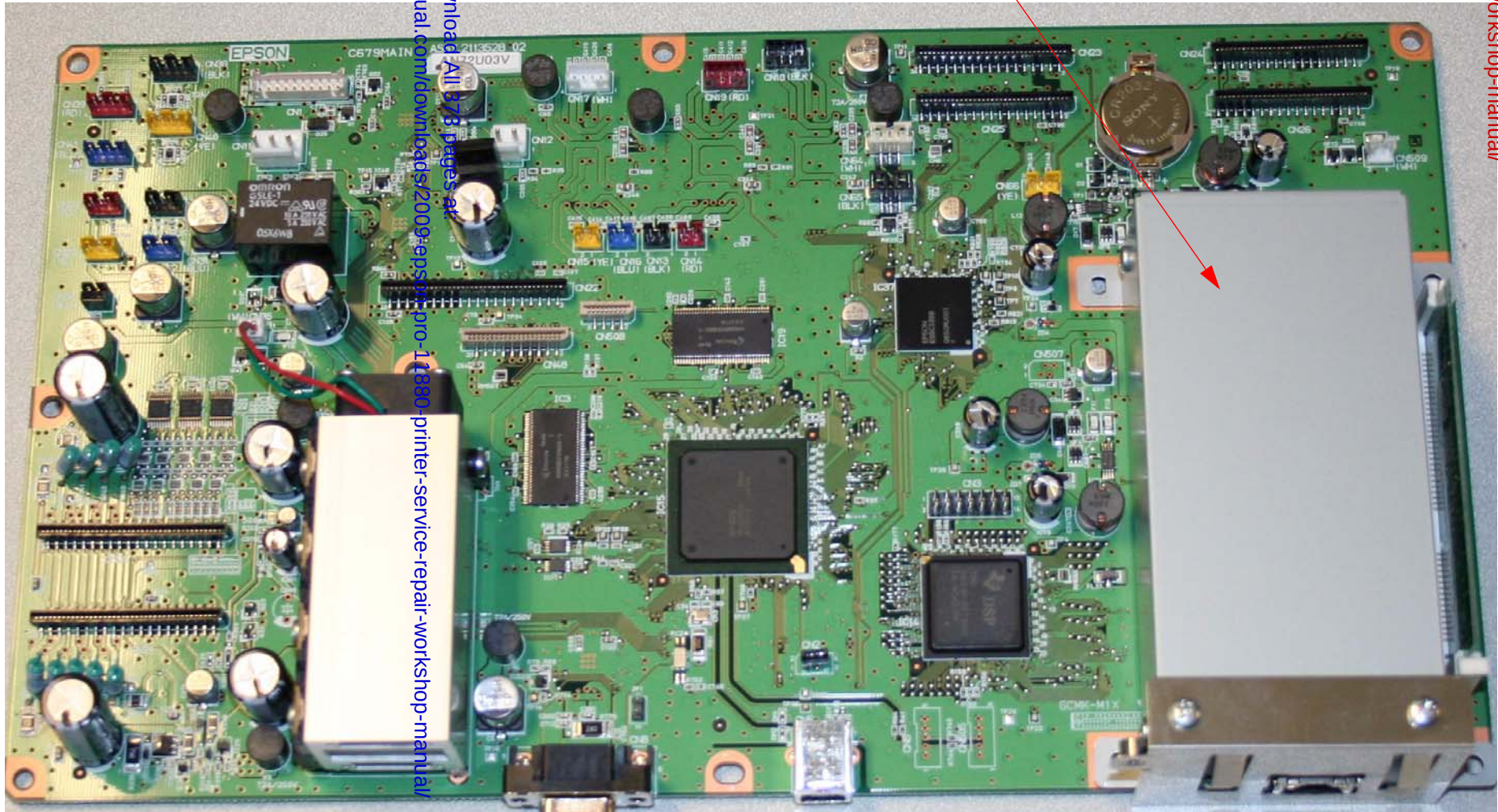


Install the **EDM SIMM**.

3. Install the **Main Board** into the **Printer**, and place the **Ethernet Cover** in position.

1. Drop in the **Main Board**.

2. Place the **Ethernet Cover** in position



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