E6198A-03

S E R V I C E N O T E

Supersedes:
NONE

E6198A Switch Load Unit (SLU) - used in N9380A

Serial Numbers: MY45330259 - MY45330782

The SLU internal power supply cable with higher current rating (E6170-61601) is recommended for customers using heavy load switching applications which draw high current from the power supply.

To Be Performed By: Agilent-Qualified Personnel Only

Parts Required:

P/N	Description	Qty.
E6170-61601	Cables, PS to Motherboard	1

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

MODIFICATION RECOMMENDED

ACTION CATEGORY:	[ ] ON SPECIFIED FAILURE [X] AGREEABLE TIME	STANDARDS LABOR: 0.5 Hours	
LOCATION CATEGORY:	[ ] CUSTOMER INSTALLABLE [X] ON-SITE [ ] SERVICE CENTER [ ] CHANNEL PARTNER	SERVICE INVENTORY: [ ] RETURN [ ] SCRAP [ ] SEE TEXT	USED PARTS: [ ] RETURN [ ] SCRAP [ ] SEE TEXT
AVAILABILITY: PRODUCT'S SUPPORT LIFE		NO CHARGE AVAILABLE UNTIL: 01 December 2009	
AUTHOR: GOH SWEE CHYE		PRODUCT LINE: PLQW	
ADDITIONAL INFORMATION:			

December 17, 2008

Agilent Technologies

Situation:

The SLU internal power supply cable with higher current rating (E6170-61601) is recommended for customers using heavy duty load switching applications which draw high current from the power supply.

Descriptions/Specifications	E6170-61624 Rev C	E6170-61601 (New)
Crimp Material [current rating]	Brass [5A Max]	Phosphor Bronze [7A Max]
Housing Material [temperature rating]	Polyester, UL 94V-2 [75°C]	Polyester, UL 94V-0 [75°C]
Cable Rating	AWG 20	AWG 18
Note: +5V supply is split into two connector pins and thus the max current handling doubles (10A for E6170-61624 Rev C cable and 14A for E6170-61601 cable).		

Table1. Material specifications for the two power supply cables.

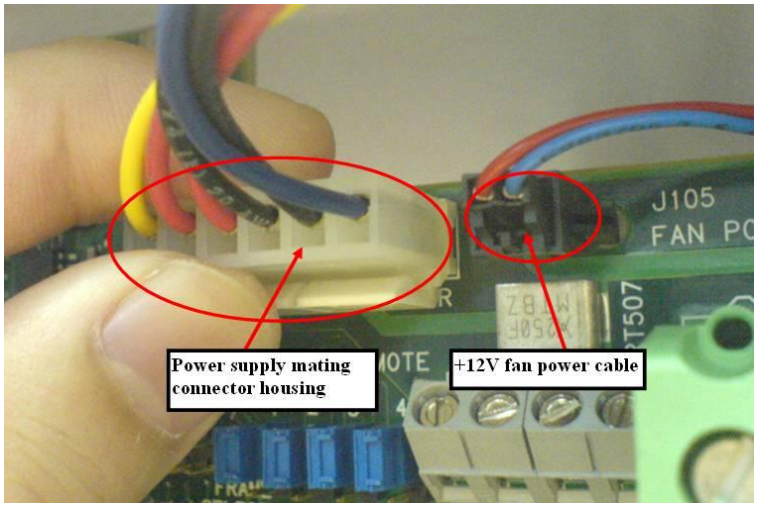
For heavy duty load switching applications, usually multi-up/multi-threading systems, which require large amount of relays to be switched on at the same time, and thus possibly consume higher than 5A current from single supply line especially +12V supply. Therefore, the new E6170-61601 cable with 7A max current handling capability on each supply pin is **RECOMMENDED**.

Solution/Action:

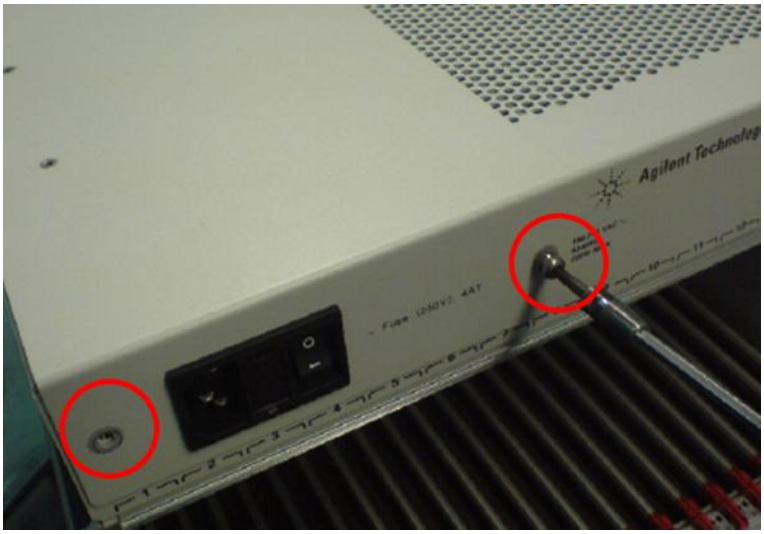
Switch Load Unit internal power supply cable change procedures:

1. Switch off the SLU power supply via power switch on the front side and then unplug the power cord from the SLU. Unscrew the screw on the rear side (circled in red) of the SLU and then remove the rear cover.

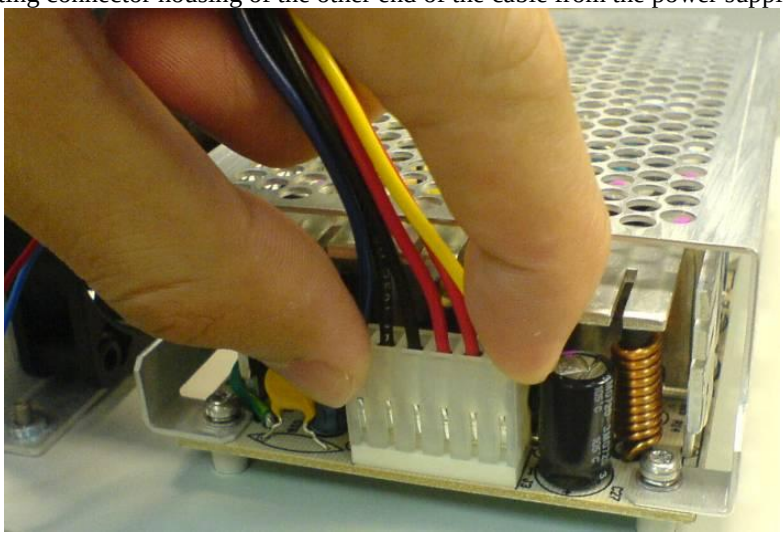
2. Unplug the power supply mating connector housing and +12V fan power cable from the SLU backplane as shown in the figure below.



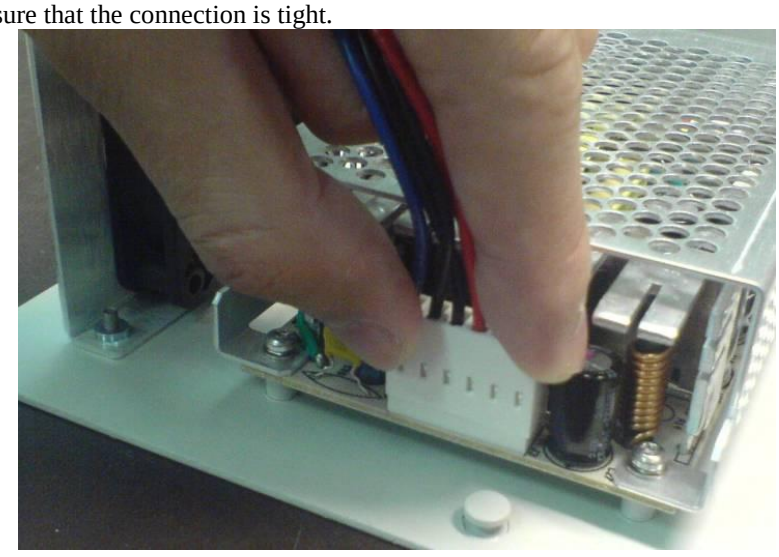
3. Unscrew the two screws on the front side (circled in red) of SLU and then remove the power supply from the SLU.



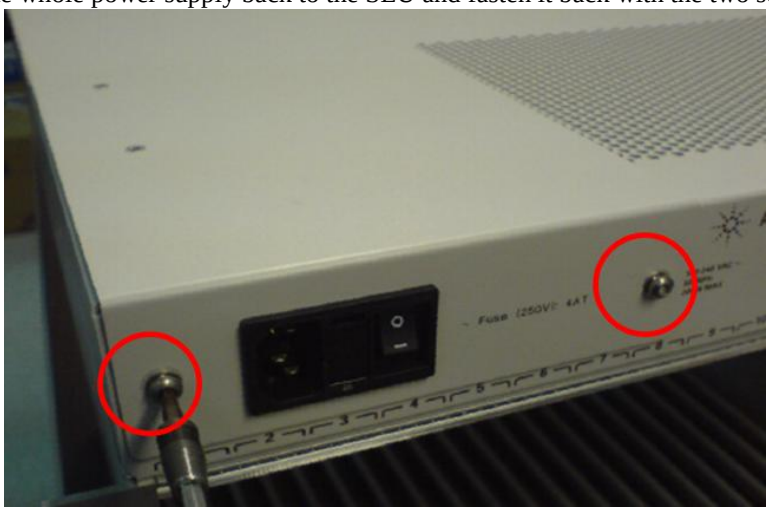
4. Unplug the mating connector housing of the other end of the cable from the power supply output connector.



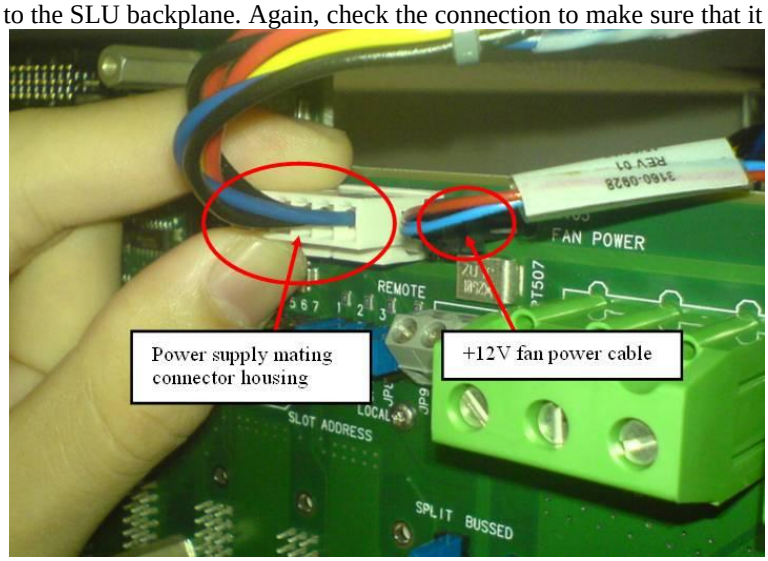
5. Plug in the new power supply cable (E6170-61601) mating connector housing to the power supply output connector. Ensure that the connection is tight.



6. Put and align the whole power supply back to the SLU and fasten it back with the two screws.



7. Carefully take out the other end of the power supply cable and +12V fan power cable, and then plug in the two connectors to the SLU backplane. Again, check the connection to make sure that it is tight.



8. Put and align the SLU rear cover back and then fasten it with the screw.