

MODIFICATION RECOMMENDED

6812B-04

S E R V I C E N O T E

Supersedes:
NONE

6812B AC SOURCE/ANALYZER, 0-300 VRMS, 750 VA, SINGLE-PHASE. GPIB, RS-232.

Serial Numbers: A LL

The **AC INPUT SAFETY COVER** has a strain relief used to secure the AC line cord that may become loose.

Parts Required:

P/N	Description	Qty.
5040-1676	AC INPUT SAFETY COVER	1

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	X ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS	LABOR: 0.17 Hours (10min)
LOCATION CATEGORY:	X CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE X SERVICE CENTER <input type="checkbox"/> CHANNEL PARTNER	SERVICE INVENTORY: X RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT	USED PARTS: X RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S Support Life	NO CHARGE AVAILABLE UNTIL: 1/2012	
AUTHOR:	CP	PRODUCT LINE: SP	
ADDITIONAL INFORMATION: ONLY replace the AC Safety Cover P/N 5040-1676 if the label shown in Figure 8 does not appear on the Safety cover or if the Cover is defective due to described failure, the Safety cover should be replaced at NO charge to the customer.			
Lost or broken AC Safety Cover will not be replaced using warranty.			

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Situation:

When the incorrect nut is used or a locking Nut is put on incorrectly the strain relief will become loose.

Figure 1 is an example of what happens when the strain relief becomes loose, the line cord becomes twisted. When a heavy line cord is used the strain relief becomes loose very easily, and the line cord cable can rotate freely.

Figure 2 shows the inside of the AC Safety Cover housing the incorrect hardware is shown. It will be very difficult to tighten the strain relief. AMC (Asian Manufacturing Center) uses a special tool to tighten the locking nut. When the incorrect nut is used or a locking Nut is put on incorrectly the strain relief will become loose as described above.

Figure 1



Figure 2



Figures 3 & 5 is representative of a not without locking ribs.

Figure 3 Regal Non locking Nut



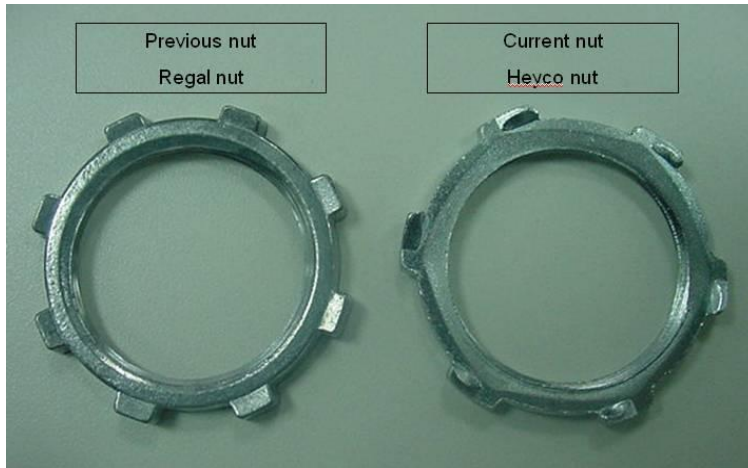
Figure 4 Heyco locking Nut



Figures 4 & 6 is representative of a nut with locking ribs.

Figure 5

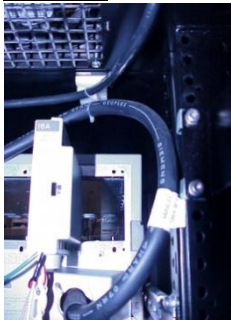
Figure 6

**Solution/Action:**

The entire AC **INPUT SAFETY COVER** P/N 5040-1676 should be replaced.

RECOMMENDED WORK-AROUND

The line cord should also be securely fastened at a point 6 to 12 inches away from **INPUT SAFETY COVER** as shown in [Figure 7](#). When this type of strain relief is used the electrical code requires the cord/cable being held by the strain relief be secured. Doing this eliminates the cable or cord from being twisted as shown in figure 1.

Figure 7

The individual parts shown in [Figure 8](#) are not available from Agilent parts “SPO” (Support Parts Organization). It is not cost affective to repair the AC **INPUT SAFETY COVER**, a special tool is required to tighten the nut shown in Figure 2.

ONLY replace the AC Safety Cover P/N 5040-1676 if the label shown in Figure 8 does not appear on the Safety cover or if the Cover is defective due to described failure, the Safety cover should be replaced at **NO** charge to the customer.

Lost or broken AC Safety Cover will not be replaced using warranty.

Figure 8



The information below is what is printed on the label shown in **Figure 8**

Required torque for securing AC Input Cover,
5040-1676, to unit is between
10 – 12 in lbs (1.13 – 1.26 N.m).

Required torque for Strain Relief screw is between
tightened using 2inlb torque.

NOTE Other related Service Notes and affected models:

6571A-09	6671A-11	6812B-04	66000A-07
6572A-09	6672A-11	6813B-06	
6573A-08	6673A-10		
6574A-10	6674A-12		
6575A-10	6675A-12		