

## S E R V I C E N O T E

SUPERSEDES: 8494B-01

**8494B Manual 11DB Attenuator****08494-60009 Replacement Assembly-8494B-001****08494-60012 Replacement Assembly 8494B-002****08494-60013 Replacement Assembly 8494B-003****08495-60029 Replacement Assembly 8495D-004****08495-60030 Replacement Assembly 8495B-001****08496-60016 Replacement Assembly-8496B-001****08496-60017 Replacement Assembly-8496B-002****08496-60020 Replacement Assembly 8496A-002****Step attenuator knob modification****Serial Numbers:**

Specific serial number affected, likely to be affected, but not restricted to:

**Product / serial number (Japan affected units):****8494A**

MY41110101 MY41110110 MY41110116 MY41110118 MY41110120 MY41110122  
 MY41110123 MY41110124 MY41110126 MY41110128 MY41110129 MY41110130  
 MY41110143 MY41110144 MY41110145 MY41110146 MY41110147 MY41110148  
 MY41110149 MY41110151 MY41110162 MY41110165 MY41110167 MY41110168

*Continued*

DATE: July 2001

## ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:					
<b>MODIFICATION RECOMMENDED</b>					
ACTION CATEGORY:	<input checked="" type="checkbox"/> IMMEDIATELY <input type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	LABOR 0.5 Hours		
LOCATION CATEGORY:	<input checked="" type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> SEE TEXT	USED PARTS:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE		AGILENT RESPONSIBLE UNTIL: July 2003		
AUTHOR: RK	ENTITY: 5534	ADDITIONAL INFORMATION:			



**8494B**

MY41110124 MY41110126 MY41110129 MY41110130 MY41110134 MY01110136  
 MY41110150 MY41110151 MY41110152 MY41110153 MY41110156 MY41110159  
 MY41110162 MY41110163 MY41110164 MY41110165 MY41110166 MY41110183  
 MY41110184 MY41110189

**8495A**

MY41110104 MY41110119 MY41110120

**8495B**

MY41110116 MY41110118 MY41110117 MY41110119 MY01110115 MY41110142  
 MY41110143 MY41110141 MY41110114 MY41110113 MY41110138

**8496A**

MY41110101 MY41110102 MY41110116 MY41110117 MY41110120 MY41110121  
 MY41110122 MY41110123 MY41110124 MY41110125 MY41110126 MY41110127  
 MY41110128 MY41110129 MY41110130 MY41110151 MY41110152 MY41110153  
 MY41110157 MY41110159 MY41110160 MY41110161

**Duplicate Service Notes:** 8494A-01 8494B-01  
 8495A-01 8495B-01  
 8495D-01 8496A-01  
 8496B-01

**To be Performed By:** Agilent Service Center or customer

**Situation:**

**Loose Knob:** Manual attenuator knob rotates on shaft without actuating the attenuation steps.

**Tight Knob:** Manual attenuator knob, while rotating, drags against the housing.

This seems to be an isolated incident that could occur with all manual attenuators. Checks have been put in place and design changes are in the works to minimize chance of problem occurring in the future.

**Solution / Action:**

*Suggested Fix For Loose Knob:*

1. Tighten set screw to 50 oz-in
2. Rotate knob clockwise until it hits the stop
3. Loosen set screw
4. Push knob against attenuator and pull back just off of surface so knob will not rub while turning.
5. Align '0' in the window
6. Tighten set screw to 50 oz-in. CAUTION, watch for hex head stripping out in set screw while tightening.

*Continued*

7. What to look for:

- Rotate knob counter clockwise through all steps without knob slipping on shaft. Knob rotation should be accompanied by clicking as actuation of the attenuation steps occurs. If rotation occurs without clicking this indicates knob is not holding shaft firmly.
- During rotation the knob should not rub against the attenuator causing excess friction or drag during rotation (see step 4).
- Attenuation numbers clearly appear in the window during each attenuation step.

*Suggested Fix for Tight Knob:*

1. Rotate knob clockwise until it hits the stop.
2. Loosen set screw.
3. Push knob against attenuator and pull back just off of surface so knob will not rub while turning.
4. Align '0' in the window.
5. Tighten set screw to 50 oz-in. CAUTION, Watch for hex head stripping out in set screw while tightening).

6. What to look for:

- Rotate knob counter clockwise through all steps without knob slipping on shaft. Knob rotation should be accompanied by clicking as actuation of the attenuation steps occurs. If rotation occurs without clicking this indicates knob is not holding shaft firmly.
- During rotation the knob should not rub against the attenuator causing excess friction or drag during rotation (see step 4).
- Attenuation numbers clearly appear in the window during each attenuation step.