

S E R V I C E N O T E

SUPERSEDES: 3070-58-S

Agilent 3070/79000 Board Test System

Serial Numbers:

US32050226 through US32050244	US38050100 through US38050137
US34230001 through US34230762	US38240096 through US38240614
US34240001 through US34240775	US39090100 through US39090121
US37280101 through US37280288	US40250101 through US40250103
US34380496	
US36240452	
US38020122	



Notification of Potential Operator Safety Hazard

Agilent has identified an irregularity with the telescoping tube used on the 3070/79000 model board test systems. The tubing may, if not adjusted properly, cause a potential safety hazard to operators. No reports of injuries have been received. Agilent is issuing this warning as part of its commitment to customer safety and product quality.

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

T15 Torx Driver	14mm Wrench
T20 Torx Driver	Flathead Screwdriver
5mm Hex Key	Pliers
Torque Wrench	

Continued

DATE: January 2001

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
SAFETY			
ACTION CATEGORY:	<input type="checkbox"/> ON SPECIFIED FAILURE <input checked="" type="checkbox"/> AGREEABLE TIME	STANDARDS: 1.0	LABOR
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input checked="" type="checkbox"/> ON-SITE <input type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT	USED PARTS: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	ALWAYS	AGILENT RESPONSIBLE UNTIL : ALWAYS	
AUTHOR:NM	ENTITY:0980	ADDITIONAL INFORMATION:	

© 2000 AGILENT TECHNOLOGIES
PRINTED IN U.S.A.

Situation:

The black telescoping tube of the testhead rotation system can slip off the threaded portion of the length adjusting shaft, if the nut located above it is not tightened properly. The normal operation of the black telescoping tube during rotation is to slide up and out of the chrome outer tube portion of the rotation system. If the nut above the black telescoping tube is not properly tightened, the telescoping tube will instead turn with the nut until it reaches the last thread on the eye bolt and disconnect. This can cause the testhead to fall either backwards or forewards and/or the gas spring on the opposite side of the testhead to release and eject.

Solution / Action:

The nut located just above the black telescoping tube on the testhead rotation motor side of system must be tightened. Additionally, a hose clamp needs to be placed on the black telescoping tube. This prevents the telescoping tube from making a complete revolution or turning more than 180 degrees.

The hose clamps are being installed on systems currently on the production floor. There is no need to place the hose clamps on:

1. 307X systems with a serial number of US38240625 or higher
2. 317X systems with a serial number of US38240431 or higher
3. 327X systems with a serial number of US38240251 or higher
4. 79000 systems with a serial number of US38050146 or higher

The hose clamps will be provided by MTD to ensure that the same hose clamp is used on each system. The hose clamps will be mailed the week of January 12th. Each CE will receive 3 boxes (10/box) of hose clamps and a copy of this service note. Tracking numbers will be provided through e-mail.

To get to the nut on an Agilent model 307x and 317x:

Step 1.

Remove the safety skirt (Safety Skirt Large, Pewter Gray, P/N E9900-44301) from the system using a 5mm Hex key. The shroud has four screws with washers.

Step 2.

Remove the two long, narrow top covers (Cover Long Agilent, P/N E9900-04305) from the system using a T20 Torx driver. Each cover has two screws.

Step 3.

Remove the top right cover (Top Right Cover 3070 Series 3, P/N E9900-04312) using a T20 Torx driver and a T15 Torx driver. The cover has two screws in front (use T20) and three screws on the side (use T15).

Step 4.

Remove the right side grille cover (Right Grille Cover, P/N E9900-04120) using a T20 Torx driver and a T15 Torx driver. The cover has one screw on the side (use T15) and two in the back inside the system (use T20). For series 2 and early series 3 systems, the two screws in back need to be removed; for more recent series 3 systems, the screws only need to be loosened.

Step 4.

Rotate the system to the service position.

Continued

Step 5.

Remove the right side frame cover (Side Frame Cover Right, Pewter, P/N E9900-04142) using a T20 Torx driver. For series 2 and early series 3 systems, the cover will have only one screw on the right side remaining; for more recent series 3 systems, the two screws loosened in the previous step will need to be removed in addition to the screw on the right side.

Step 6.

Ensure the nut on the linear actuator is tight using a 14mm wrench or an adjustable wrench. If needed, hold the black telescoping tube on the linear actuator with a pliers to prevent it from turning. Tighten the nut firmly, to approximately 120 inch-lb/13.5 Newton-meter.

Step 7.

Install the hose clamp (see figure 1 below) provided by Agilent (worm gear drive, stainless housing and band, size #12) on the end of the black telescoping tube, closest to the eye bolt using a flat head screw driver. Position the clamp as close to the end as possible with the screw head facing the floor and the screw body parallel to the side of the testhead (see figure 3). Take care not to over tighten the clamp, as the slots in the band could break.

Step 8.

Replace all covers and reposition the system to the starting position.

For an Agilent model 327x:

Step 1.

Remove the safety skirt (Safety Skirt 1 Mod Pewter Gray, P/N E9997-44301) from the system using a 5mm Hex key. The shroud has four screws with washers.

Step 2.

Remove the two short, narrow top covers (Cover Short Agilent, P/N E9997-04305) from the system using a T20 Torx driver. Each cover has two screws.

Step 3.

Remove the top right cover (cover Assembly, Flat, Small P/N E9997-04311) using a T20 Torx driver and a T15 Torx driver. The cover has two screws in front (use T20) and three screws on the side (use T15).

Step 4.

Remove the right side grille cover (Right Grille Cover, P/N E9900-04120) using a T20 Torx driver and a T15 Torx driver. The cover has one screw on the side (use T15) and two in the back inside the system (use T20). For series 2 and early series 3 systems, the two screws in back need to be removed; for more recent series 3 systems, the screws only need to be loosened.

Step 5.

Rotate the system to the service position.

Step 6.

Remove the right side frame cover (Side Frame Cover Right Pewter, P/N E9900-04142) using a T20 Torx driver. For series 2 and early series 3 systems, the cover will have only one screw on the right side remaining; for more recent series 3 systems, the two screws loosened in the previous step will need to be removed in addition to the screw on the right side.

Continued

Step 7.

Ensure the nut on the linear actuator is tight using a 14mm wrench or an adjustable wrench. If needed, hold the black telescoping tube on the linear actuator with a pliers to prevent it from turning. Tighten the nut firmly, to approximately 120 inch-lb/13.5 Newton-meter.

Step 8.

Install the hose clamp (see figure 1) provided by Agilent (worm gear drive, stainless housing and band, size #12) on the end of the black telescoping tube closest to the eye bolt using a flat head screw driver. Position the clamp as close to the end as possible with the screw head facing the floor and the screw body parallel to the side of the testhead (see figure 3). Take care not to over tighten the clamp, as the slots in the band could break.

Step 9.

Replace all covers and reposition the system to the starting position.



Figure 1. Size #12 Hose Clamp

Continued



Figure 2. Nut on Linear Actuator



Figure 3. Hose Clamp Orientation on Black Telescoping Tube