

CLOSED PACKAGE RESTRAINING PLATE FIXTURE



F100-1750-1

CARLETON

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INTRODUCTION

Package deformation during inflation tends to affect burst test results. Variations in package deformation can be caused by operator interference during testing, non-uniformity of package materials and fixturing inconsistencies. The F100-1750-1 Closed Package Restraining Plate Fixture design minimizes deformation of the package under test. This affords the operator less variation in test results by virtually eliminating gross package deformation as a variable.



Do not exceed 50 psi operating pressure to any package under test. Pressure in excess of 50 psi may cause failure of the fixture and result in serious injury or death.

Do not attempt to disassemble the Closed Package Restraining Plate Fixture! Structural adhesives are used to lock bolts in place for the safety of the operator. Any attempt to remove the bolts will weaken the assembly and may place the safety of the operator in jeopardy.



The fixture is extremely heavy. Do not attempt to move alone. Utilize two people, proper lifting techniques and, if necessary, adequate back support.

Use proper ear protection when using the test fixture. Restrained packages will present a loud report when burst.

Use proper eye protection when using the test fixture. Packages may fragment and become airborne during restrained testing.

SPECIFICATIONS

- The F100-1750-1 Restraining Plate Fixture will accept packages up to 14 inches wide by 20 inches long (35.56 cm X 50.8 cm).
- Needle Probe: 3/16inch single needle
- Maximum operating pressure: 50 Psi (2.39 kPa)
- The restraint system can be adjusted for any gap between 0 and 2 inches (0 and 5.08 cm).
- Weight: 85 pounds (38.55 kg)

INSTALLATION AND SETUP

- The recommended inflation source for the Restraining Plate Fixture is the Test-A-Pack F100-2600-3 Seal Strength Tester. Please see the user manual for the F100-2600 for proper operation.
- Place the Restraining Plate Fixture on a clean flat surface.
- Connect the pressure and sensing line hoses to the needle probe on the top of the fixture and to the back of the F100-2600.

TESTING PACKAGES

- In order to puncture of the package, it is recommended that either a lidded tray or a flexible pouch with a ring placed inside be used. Placement of a ring inside the flexible package can be completed ahead of time.
- Use the black knurled knob on the stainless steel shuttle tray to pull it out. (Figure 1. A.) Place the flexible package onto tray lining up the desired puncture site with the alignment hole (Figure 1. B.)

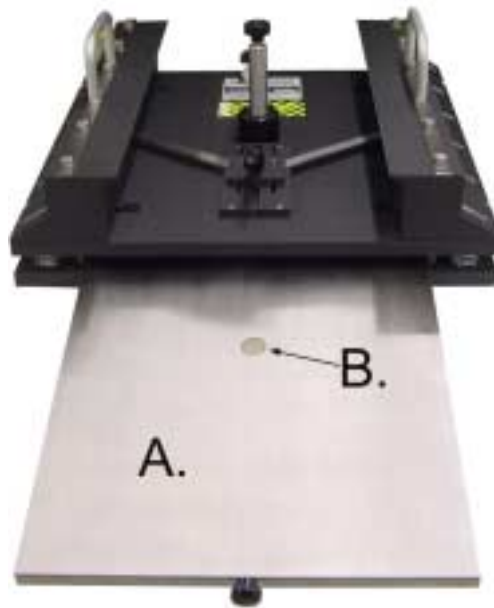


Figure 1.

- Reinsert the shuttle tray into the fixture, careful not to move the package relative to the tray.

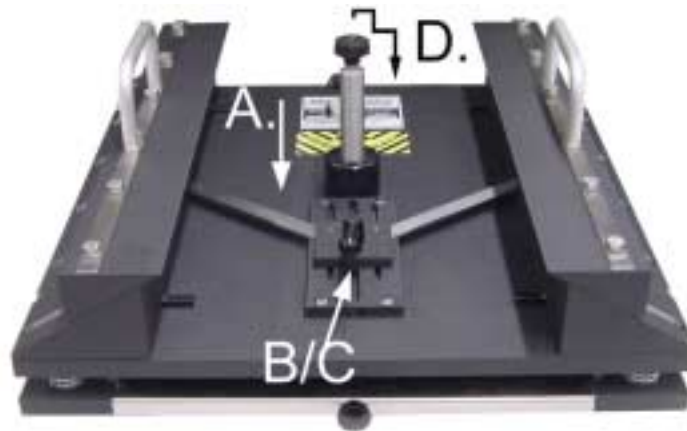


Figure 2.

- To set the proper gap and puncture the package:
 - A. Push straight down firmly on the top plate assembly until it contacts the package or reaches the desired gap.
 - B. While holding the desired gap, push the locking slide towards the needle probe to deploy the shims.
 - C. Turn the locking slide handle clockwise until tight.
 - D. Lift up slightly in the needle probe. Rotate clockwise until it stops. Push the probe down and rotate clockwise until it stops again. Push probe down a final time to puncture the package.
- Begin testing

MAINTENANCE

The F100-1750-1 is designed to be maintenance free. If occasional cleaning becomes necessary, use a mild soap and water solution, and a soft cloth.

It is not possible to service the mechanism of the Closed Package Restraining Plate Fixture. Do not attempt to disassemble the fixture.

Optional Test-A-Pack Accessories

F100-2600-3 Seal Strength Tester

Open Package Test Fixtures:

F100-1600-2	24" Open package test fixture
F100-1600-3	12" Open package test fixture
F100-1600-4	40" Custom open package test fixture

Closed Package Test Fixtures:

F100-1320-4	6 ½" Maximum height- 3/16" needle probe
F100-1320-5	14" Maximum height- 3/16" needle probe
F100-1320-6	6 ½" Maximum height- double needle probe (for small packages)

Restraining Plates:

F100-1700-1	For pouches up to 14"W x 20"L –for use with the 1600 series
F100-1720-1	Closed Package Fixture with 4 adjustable gaps
F100-1750-1	Closed Package Fixture with infinitely adjustable gap

Printers:

F100-2573-1	110Volt AC printer kit
F100-2573-4	220Volt AC printer kit

Replacement Parts:

F100-2669-1	Pressure and sensing line kit
F100-1418-3	Inflation port with wing- for use with 1600 series
F100-1428-2	Inflation port without wing- for use with 1600 series
CTMANF006-1	3/16" single needle probe assembly- for use with 1320 series
CTMANF007-1	Double needle probe assembly- for use with 1320 series

Software:

CTSOFT001-1	Test-A-Pack Systems Data Collection Software
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Contact Information

For more information:

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