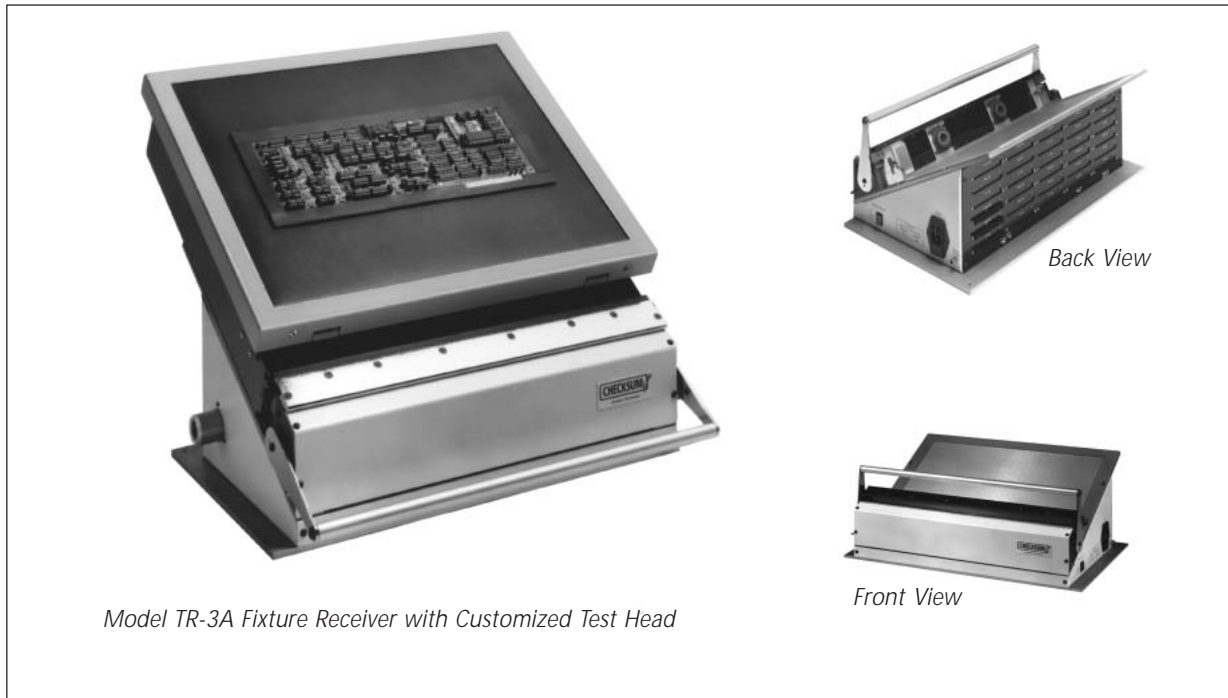


# Model TR-3A Bed-of-Nails Vacuum Fixture System



## Product Features

- Bed-of-Nails Fixturing
- Up to 1500 Test Points
- Automated Vacuum Control
- Industry-Standard Interface

## Applications

- **Bare Boards**
- **Loaded Boards**

The CheckSum Model TR-3A Fixture System allows CheckSum Test Systems to be interfaced to the unit-under-test (UUT) via a Bed-of-Nails Vacuum Fixturing System. The 50-pin ribbon cables from the test system electronics attach directly to mating connectors on the back of the fixture receiver. Internal to the receiver, cabling carries the signals to pin blocks with spring probes that provide a reliable interface to easily interchanged test heads which are customized for each UUT or family of UUTs.

The Model TR-3A Receiver Assembly accommodates up to 1500 test points and uses industry-standard GenRad 2270-compatible test head kits. The receiver provides for connection of your vacuum pump via a 1-1/4" I.D. hose or 3/4" NPT connection. Vacuum is controlled by an automatic solenoid valve that is remotely controlled by

the test program. CheckSum can also provide complete custom fixturing solutions.

## Configuration

For a complete configuration, begin with the Model TR-3A Receiver Assembly. For each 150 test points connected to the Receiver from the test system electronics, add a Model TR-3-1 Receiver Pin Block and Wiring option. Add one Test Head Kit (Models TR-3-1216, TR-3-1620, or TR-3-2024) for each UUT or family of UUTs that you will be testing. For every 150 test points that are used within each test head, add a Model TR-3-2 Wiring Block.

Contact the CheckSum fixture group for more information and competitive custom fixturing and test programming quotes.

FIXTURE  
SYSTEMS

# Model TR-3A Bed-of-Nails Vacuum Fixture System

## Specifications

### Model TR-3A Bed-of-Nails Fixture Receiver

- Size: 22" W x 16" D x 9" H (excluding test head)
- Weight: 30 lbs. (excluding packing materials)
- Vacuum Required: Typical test heads require 20-30 CFM providing 15-20" of Mercury
- Vacuum Connection: 1-1/4" I.D. Hose or 3/4" NPT

### CheckSum Test Head Kits

- Size: As per order size
- Overall Depth: 4"
- Internal Depth: 2.5"
- Usable Size: Nominal dimensions less 3"
- Weight: 23 lbs. (16" x 20")
- Each kit includes:
  - Base Assembly
  - Probe and Diaphragm Plates
  - Gas Shock (or Spring Balance)

### CheckSum Test Fixture Components

- Model TR-3A Receiver Assembly with Automated Control Valve
- TR-3-1 Receiver Wiring, Interface Block, and Back Panel Connectors for 150 Test Points
- TR-3-2 Test Head Wiring Block for 150 Test Points
- Model TR-3-1216 12" x 16" Test Head Kit
- Model TR-3-1620 16" x 20" Test Head Kit
- Model TR-3-2024 20" x 24" Test Head Kit



*Model TR-3-1620 Test Head Kit*