



Technical Data and Instructions

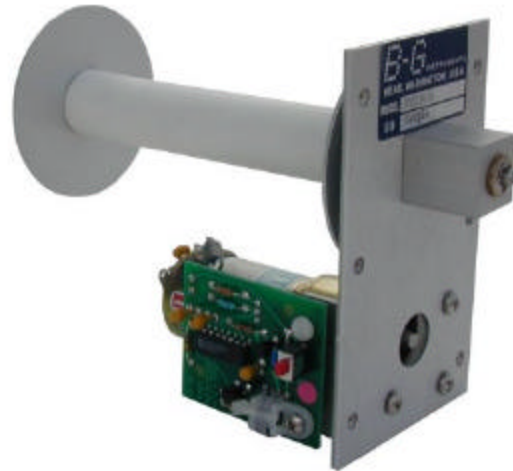
Paper Take-Up Assembly

GENERAL DESCRIPTION

The DataPlot PTU-XXXX Paper Take-up Unit (PTU) is designed to operate with BGI control boards and print mechanisms. This optional piece of equipment must be specified at time of order so that proper parts are installed on the main control board (CB2832, CB2448, CB3832, CB3448, etc). It is available for all BGI printers using TP-1, TP-3 or TP-4 thermal paper. The PTU works to re-spool paper, generally for archival purposes, as part of the print function. The operation of this unit is automatic requiring no user commands. The paper is re-spooled after exiting the printer and is stored on a removable core. This core collapses after removal from its mounting points and is extracted, from the paper roll, for reuse.

OPERATION

Initially a length of paper is advanced through the print mechanism sufficient to allow the user a working length. This paper is then inserted into a slot, in the paper core of the PTU, a distance of about 20 mm (.75"). Using the manual pushbutton switch one turn is taken on the core to engage the next layer of paper. The print and re-spool operation then proceeds with no other action required by the user. Electronics on the unit maintain tension on the paper at all times during the print/re-spool cycle. Upon completion of a printed roll of paper, the left hand thumbnut is removed along with the outer disk. The paper roll is removed from the assembly by sliding it off the support shaft. Once removed, the PTU core collapses inside the paper roll, allowing the core to be recovered. The core is then slipped back on the shaft and the outer disk is reinstalled with the thumbnut.

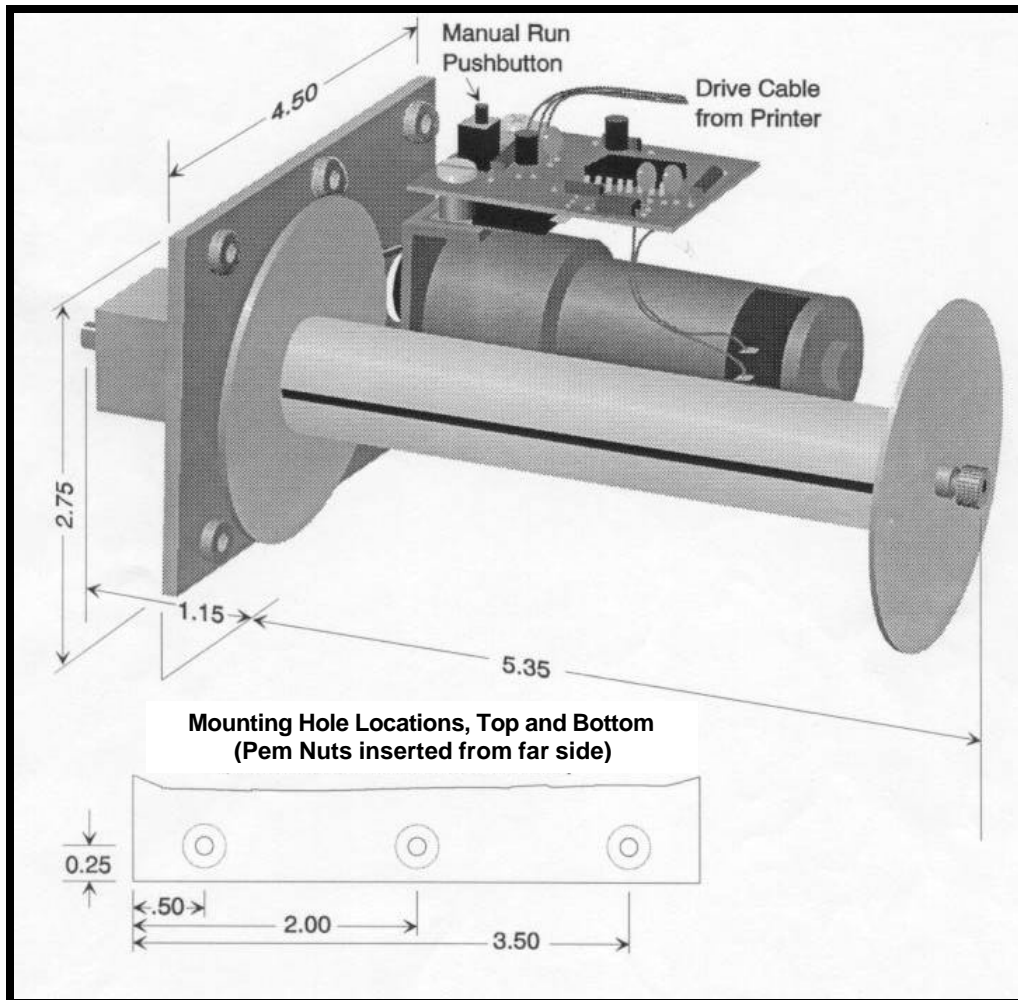


MECHANICAL

Mounting of this unit is critical to proper operation. The PTU can be mounted in any orientation however; it must be mounted so that the paper core is parallel in three planes with the platen of the print mechanism. The unit has mounting "PEM" type insert nuts located along the top and bottom edges of the main frame. Generally an "L" bracket is used to mate this frame to the customer chassis. The PTU can be mounted any distance away from the printer, allowing the paper to traverse over a substrate. Again, caution must be exercised to insure proper alignment with the printer. Access should be provided for removal of the spooled paper. This distance will vary according to the PTU selected.

ELECTRICAL

The PTU uses a geared DC motor, with ESD filters, to re-spool paper. A brushless motor can be specified for applications with this requirement. Drive voltage for the PTU (12 VDC to 24 VDC) is supplied via an eighteen inch cable (18"), which connects to its corresponding control board through an indexed, locking, four (4) terminal, Molex connector (22-01-3047). Other cable lengths may be requested. The main control board (CB1416, CB2224, etc.) must have a corresponding four (4) pin, Molex header (22-01-2042) installed at time of manufacture. The Drive voltage (12 VDC to 24 VDC) of the control board and print mechanism determines the operational voltage for the PTU. While the main control board generally drives the PTU, a manual run, pushbutton switch is provided to allow the user to operate the motor.



WARRANTY

B-G Instruments will repair or replace, at its option, any DataPlot Paper Take-up Unit (PTU) that malfunctions because of faulty manufacture within one year after its original date of sale, provided that the PTU has been used exclusively with a properly functioning CBXXXX control Board and:

1. neither the PTU nor its control board have been modified in any way not specifically authorized by B-G Instruments, Inc., and
2. electrical power applied to the control board has always been within specifications for that board, and
3. the PTU shows no evidence of electrical, thermal or mechanical damage.

B-G Instruments, Inc.
13607 E. Trent Ave.
Spokane, WA 99216, U.S.A.
www.bginstruments.com

Toll Free: (888) 244-4004
Phone: (509) 893-9881
Fax: (509) 893-9803
 Email: contact@bginstruments.com