

UNPACKING AND INSTALLATION CHECKLIST
 SMART T INTERFACE OPTION
 PRIAM 8-IN. AND 14-IN. DRIVE

SHEET AND REVISION TABLE

SHT	1	2	3	4	5	6	7	8	9	10	11	12	13					
REV	B	B	B	B	B	B	B	B	B	B	B	B	B					
DATE	E/C NO.		DATE	E/C NO.		TITLE												
GRC 6-5-84	FMR2256					UNPACKING AND INSTALLATION CHECKLIST												
						SMART T INTERFACE OPTION, PRIAM 8-IN. & 14-IN.												
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						DETAIL	DN	5-31-84	SHEET	1								
						CHECK	B.V.K.	5-31-84	REV	300256								
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PRIAM

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1.0 INTRODUCTION

This manual contains procedures for the unpacking and handling of the PRIAM SMART T controller (see Figure 1). Included are instructions for mounting the controller and its associated mounting hardware on a PRIAM 8-inch drive (Section 3) or a PRIAM 14-inch drive (Section 4).

2.0 UNPACKING THE CONTROLLER

2.1 Shipping Damage Inspection

The controller is packaged to withstand normal handling in a reusable shipping container. It is the customer's responsibility to notify the carrier if shipping damage should occur to the controller.

When the shipment is received, the shipping container should be examined for obvious signs of shipping damage. Most insurance adjusters require inspection of the damaged container. Notify the carrier and PRIAM Customer Service immediately if shipping damage is discovered.

2.2 Opening the Container

The controller shipping container consists of a carton and two foam inserts which hold the controller and mounting hardware. Open the outer carton by cutting the tape securing the top flaps.

2.3 Inspection Procedures

After unpacking the controller, inspect it thoroughly for damaged, loose, or missing components and hardware. Ensure that all mounting hardware is present.

See Table 1 for an itemized list of hardware for mounting the controller on PRIAM 8-inch drives.

Table 2 provides an itemized list of mounting hardware for mounting the controller on PRIAM 14-inch drives.

2.4 Controller Handling Guidelines

Adhere to the following steps when handling the controllers:

- o Hold controller by the edges with both hands (as if holding a phonograph record).
- o Do not drop controller from any height.
- o Controller should be placed carefully on a clean anti-static surface with controller resting on its non-component side.
- o Do not reposition components or wires.
- o Do not lay objects on top of controller.

3.0 MOUNTING THE CONTROLLER ON A PRIAM 8-INCH DRIVE

This section describes how to mount a PRIAM SMART T controller on a PRIAM 8-inch drive (see Figure 2). Refer to Section 4 for mounting the controller on a 14-inch drive.

**TABLE 1. Hardware Required to Mount
Controller on an 8-Inch Drive**

DESCRIPTION	QTY
Tie, cable, self-locking	3
Support, 3/4-in, PCBA (stand-off)	6
ASM, cable, flat, 50 cond, 2.0 in.	1
Conn, Housing w/locking ramp	1
Conn, Terminal	2

- a. Disconnect power to 8-inch drive.
- b. If the drive is not equipped with the autolock feature, ensure that the spindle/carriage is locked.
- c. Remove all six mounting screws that hold RW/-DIGITAL PCBA to frame.
- d. Secure RW/DIGITAL PCBA to frame using six 3/4-inch PCBA supports.
- e. Connect one end of 50-pin flat cable to connector J1 on RW/DIGITAL PCBA. Ensure that Pin 1 of connector J1 on PCBA connects to Pin 1 of flat cable.
- f. Ensure that PRIAM terminator is installed in J4 of RW/DIGITAL PCBA if drive is last one in daisy chain string or is the only drive. Ensure that Pin 1 of terminator is inserted into Pin 1 of J4.
- g. Mount controller on the 3/4-inch PCBA supports. Press firmly until supports come through mounting holes and lock. Orientation of controller should be as shown in figure 2 with J1 of controller directly over J1 of RW/DIGITAL PCBA.
- h. Connect loose end of 50-pin flat cable from J1 of RW/DIGITAL PCBA to J1 of controller. Ensure that Pin 1 of J1 connects to Pin 1 of flat cable.
- i. Construct a power cable using the connector housing, two (2) terminals, and two (2) 18 AWG wires, one (1) RED and one (1) BLACK (the wire is user supplied). Refer to Figure 3 for the correct positions of the RED and BLACK wire in the connector. The RED wire must go to the +5 volt terminal of the user supplied power source, and the BLACK wire must go to the +5 volt return.

- j. Connect the 2 pin power connector to J3 of SMART T PCBA. Refer to Figure 2. IMPORTANT: Insure that lip of connector is facing up, locks with J3 receptacle, and the RED, +5 volt wire is toward the outside edge of the PCBA.

CAUTION!

INCORRECT ORIENTATION WILL
RESULT IN DAMAGE TO PCBA

- k. Route the source power cable assembly using tie wraps as shown in Figure 2.
- l. Connect Host (40 pin) flat cable to J2 of SMART T Interface.
- m. Set the SMART T controls at location 7B as desired. These switches are set to define the power up or reset default configuration of the SMART T. These functions may also be specified under software control.

SMART T SWITCHES/CONTROLS

<u>SWITCH</u>	<u>FUNCTIONS</u>
1-5	These switches should be off.
6	ON - Enables an interrupt when the power up/initialization sequence has completed.
7	ON - Enables an interrupt when a command has completed.
8	ON - Enables an interrupt when a host bus parity error has been detected.

n. Unlock spindle if the drive is not equipped with an automatic spindle lock.

4.0 MOUNTING CONTROLLER ON A PRIAM 14-INCH DRIVE

This section describes how to mount the PRIAM SMART T controller on a PRIAM 14-inch drive. Refer to Section 3 for mounting the controller on a PRIAM 8-inch drive.

**TABLE 2. Hardware Required to
Mount Controller on a 14-Inch Drive**

DESCRIPTION	QTY
Tie, cable, self-locking	4
Support, 3/4-in. PCBA (stand-off)	4
ASM, cable, flat, 50 cond, 12.0 in.	1
Bumper, self-sticking	2
Conn, Housing w/locking ramp	1
Conn, Terminal	2

- a. Disconnect power to 14-inch drive.
- b. Ensure that spindle/carriage is locked.
- c. Connect one end of 50-pin flat cable to connector J1 on main PCBA of drive. Ensure that Pin 1 of connector J1 on main PCBA connects to Pin 1 of flat cable.
- d. Insert four 3/4-inch PCBA supports into holes on PCBA, as shown in figure 4.
- e. Ensure that PRIAM terminator is installed on main PCBA if drive is last one in daisy chain or is the only drive. Ensure that Pin 1 of terminator is inserted into Pin 1 of connector.
- f. Fold and route loose end of 50-pin flat cable from J1 to main PCBA to J1 of controller. Locate the two rubber bumpers approximately as shown on folded cable.
- g. Mount controller on the 3/4-inch PCBA supports. Press firmly until supports come through mounting holes and lock. Orientation of controller should be as shown in figure 4.
- h. Connect loose end of 50-pin flat cable to connector J1 of controller. Ensure that Pin 1 of connector J1 on controller connects to Pin 1 of flat cable.
- i. Construct a power cable using the connector housing, two (2) terminals, and two (2) 18 AWG wires, one (1) RED and one (1) BLACK (the wire is user supplied). Refer to Figure 3 for the correct positions of the RED and BLACK wire in the connector. The RED wire must go to the +5 volt terminal of the user supplied power source, and the BLACK wire must go to the +5 volt return.

- j. Connect the 2 pin power connector to J3 of SMART T PCBA. Refer to Figure 4. IMPORTANT: Insure that lip of connector is facing up, locks with J3 receptacle, and the RED, +5 volt wire is toward the outside edge of the PCBA. INCORRECT ORIENTATION WILL RESULT IN DAMAGE TO PCBA.

CAUTION!

INCORRECT ORIENTATION WILL
RESULT IN DAMAGE TO PCBA

- k. Route and secure power cable assembly using tie wraps as shown in Figure 4.
- l. Connect Host (40 pin) flat cable to J2 of SMART T Interface.
- m. Set the SMART T controls at location 7B as desired. These switches are set to define the power up or reset default configuration of the SMART T. These functions may also be specified under software control.

SMART T SWITCHES/CONTROLS

<u>SWITCH</u>	<u>FUNCTIONS</u>
1-5	These switches should be off.
6	ON - Enables an interrupt when the power up/initialization sequence has completed.
7	ON - Enables an interrupt when a command has completed.
8	ON - Enables an interrupt when a host bus parity error has been detected.

- n. Unlock spindle.

5.0 OTHER DOCUMENTATION

Manuals, specifications, schematics and other technical documents are available from PRIAM. To order additional data, contact PRIAM Technical Support at:

PRIAM Technical Support

20 W. Montague Expwy.
San Jose, CA 95134

Phone: (408) 946-4600
TWX: 910-338-0293

6.0 UNPACKING CHECKLIST

Model _____

S/N _____

Date _____

This checklist is provided to aid in the unpacking and handling of the PRIAM SMART T controller. It is important for the protection of your warranty that these instructions be followed exactly. Refer to the indicated paragraphs of this guide for more details on each step.

1. Carefully inspect the shipping container (inside and out) for obvious damage (paragraph 2.1). DO NOT PROCEED IF THERE APPEARS TO BE SHIPPING DAMAGE.
2. Open the shipping container. Avoid using sharp instruments to open the container. Remove the information packet (section 2.2).
3. Remove controller from container and carefully inspect for damaged, loose, or missing components and hardware.

NOTE: PRIAM recommends saving all packing materials for possible reuse in shipping the equipment.

SWITCHES 7B

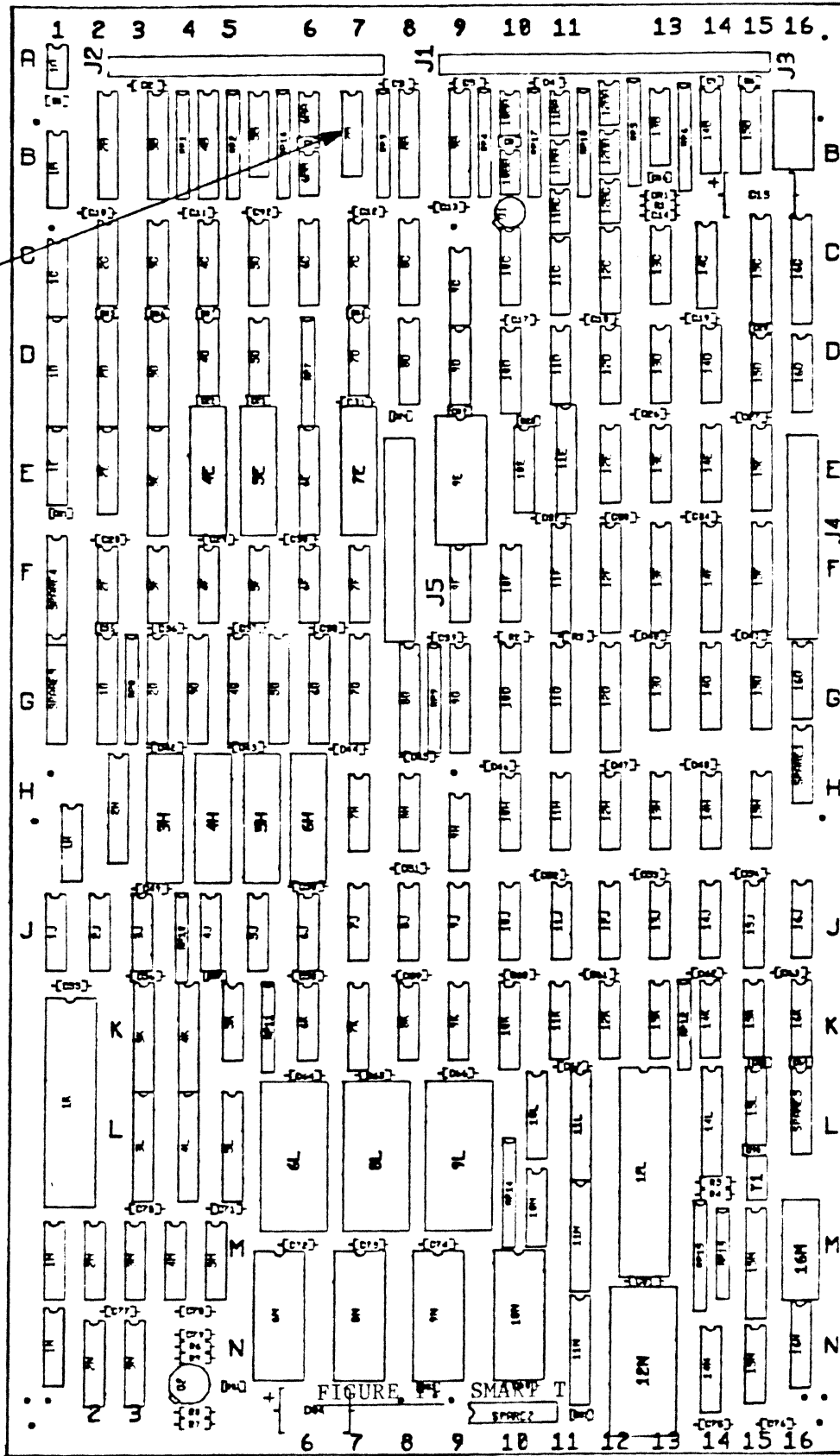


FIGURE 1 SMART T

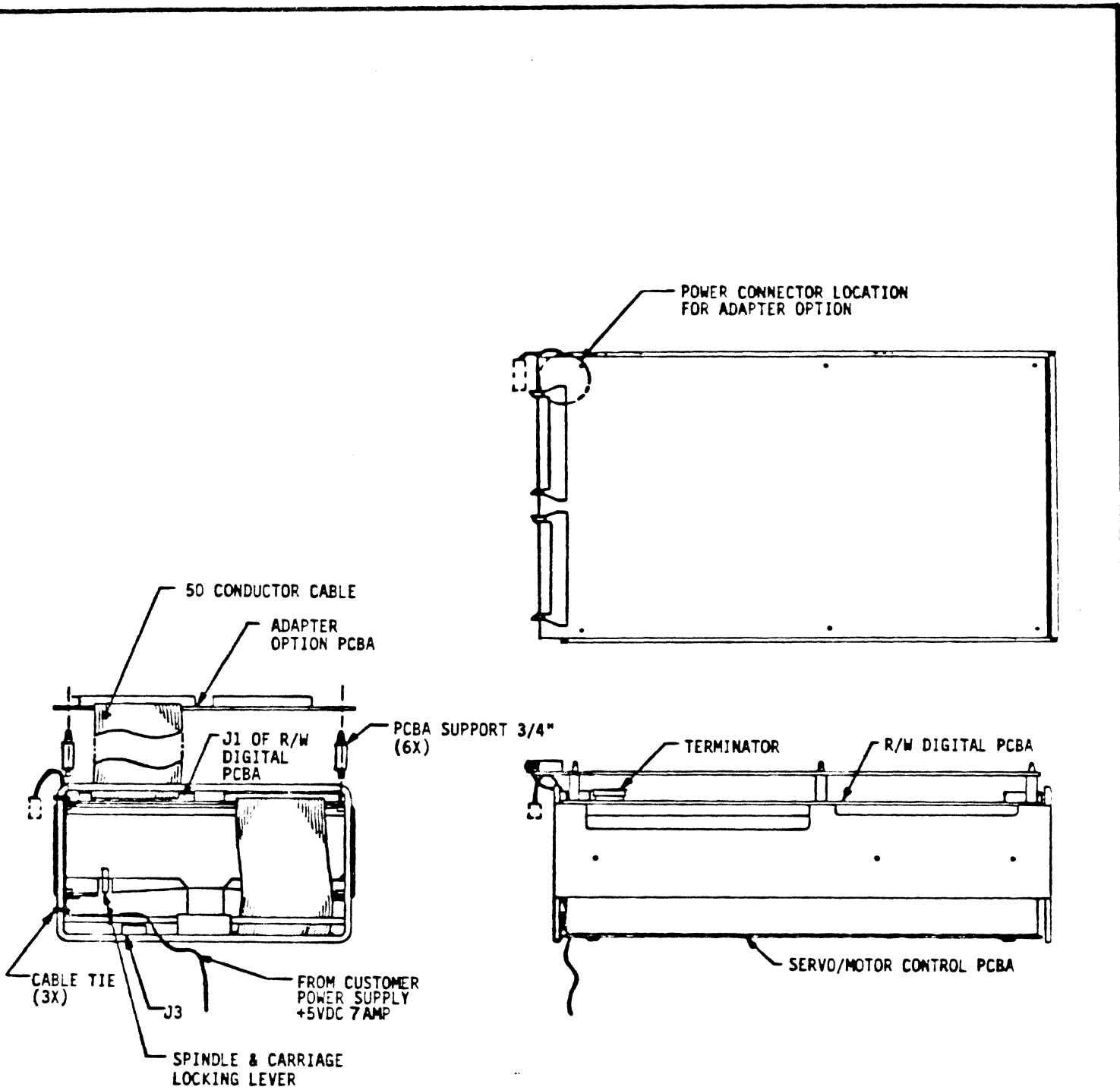


FIGURE 2. SMART T INSTALLATION ON 8" DRIVE

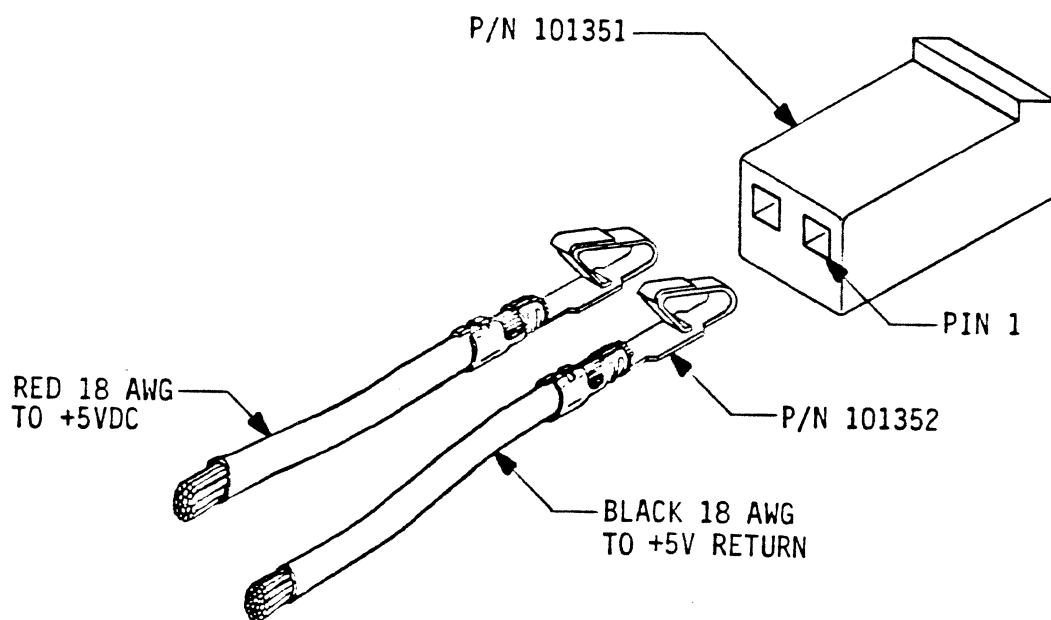


FIGURE 3. SMART T POWER CABLE

FIGURE 4. SMART T INSTALLATION ON 14" DRIVE

