

## Chapter 2 Set Up

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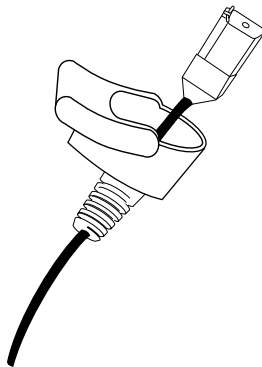
### Unpacking

Remove the scanner from its packing and inspect it for damage. If the scanner was damaged in transit, call the **Symbol Support Center** at one of the telephone numbers listed on page vii. **KEEP THE PACKING.** It is the approved shipping container and should be used if you ever need to return your equipment for servicing.

### Cables

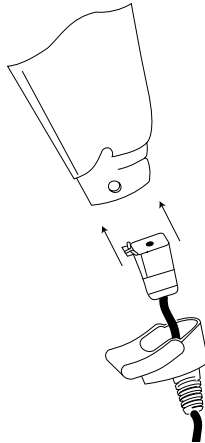
#### Installing the Cable

1. Switch off all devices connected to the LS 400X cable.
2. Pull the boot up over the cable until just the connector is protruding (Figure 2-1).



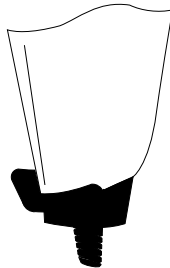
**Figure 2-1. Scanner Cable**

3. Plug the modular connector on the cable into the receptacle in the bottom of the LS 400X handle (Figure 2-2). Listen for a click.



**Figure 2-2. Plugging in The Modular Connector**

4. Gently tug the cable to ensure the connector is properly secured.
5. Slide the boot up while observing its orientation until it is securely in place (Figure 2-3).



**Figure 2-3. Boot Securely in Place**

6. Make certain the semi-circular key on the boot slides inside the handle assembly, and that the boot snaps into place.
7. Gently pull the boot to make certain it is properly seated.

## Switching Cables

Different cables are required for different hosts. To change the scanner cable:

1. Slide boot down over cable.
2. Unplug modular connector by depressing connector clip (through the access hole), and remove existing cable.
3. Follow steps for *Installing the Cable*, beginning on page 2-1.

## Power Options

Three power options are available:

- External power supply
- Battery Box
- Direct Host Power (LS 4005)

Available power options are host dependent.

## Battery Box Operation

When using the LS 400X with a battery box, you can use either an alkaline battery (recommended), or a nickel-cadmium rechargeable battery.

### Changing the Battery

1. To open the battery box, push up on the flanges at one end of the pack.
2. Remove the old battery.
3. Insert the new or recharged 9-volt battery into the battery box. Match the positive (+) and negative (-) terminals on the battery with the corresponding terminals in the battery box.

### Recharging a Nickel-Cadmium Battery

Remove the battery from the battery box and place it in the recharging unit (not supplied by Symbol).

To recharge the battery, follow the instructions supplied with the recharging unit.

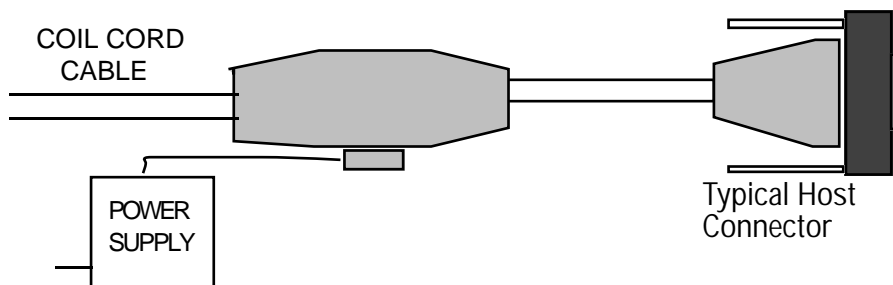
## Connecting to a Host

With some terminal types, the LS 400X is unable to answer host terminal polls until the appropriate host type is selected. If the appropriate host type is not selected, the connected host may generate an error message. To correct this situation, select the proper parameter set and initialize the host terminal. See *Chapter 5* for more information.

### RS-232C

#### For external power operation with single-piece cable

1. Plug the scanner into the appropriate port on the host device.
2. Connect the power supply to the input receptacle located near the host end of the cable (Figure 2-4).

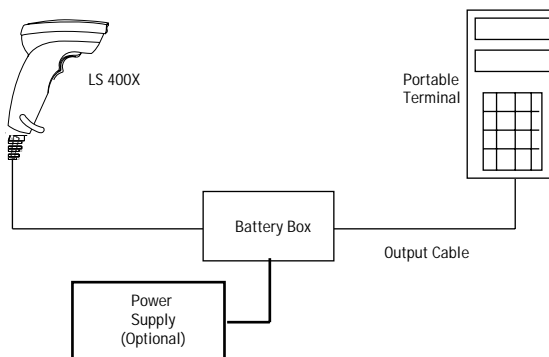


**Figure 2-4. RS-232C External Power Connection**

**Note:** Coil cables that terminate in a 25-pin D-type connector have a power receptacle on the side of the connector assembly.

### For battery operation:

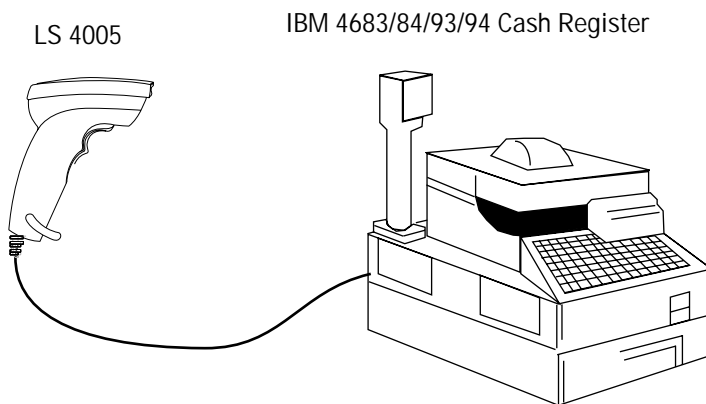
1. Insert a 9-volt battery into the battery box. See the *Battery Box Operation* section on page 2-4.
2. Plug the scanner's 9-pin connector at the end of the coil cord into one end of the battery box.
3. An output cable from the battery box connects the LS 400X to the RS-232C input device. Connect one end of this cable to the battery box and the other end to the appropriate port on the host device (Figure 2-5).



**Figure 2-5. RS-232C Battery Operation**

## IBM 468X/9X

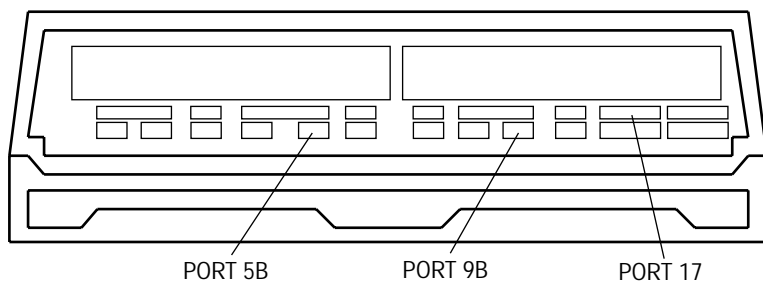
Plug the SDL modular connector at the end of the selected scanner cable into the appropriate port (5, 5B, 9B, 9C, 9E, or 17) (Figure 2-6). Check that the connection is secure. Figures 2-7 through 2-10 show the rear of the IBM terminals with the covers removed. Note that the unit may be connected to one hardware port, and configured for a different software port using the bar codes on page 5-8. The hardware ports available determine how the unit is connected to the host, while the software port configuration determines how it communicates.



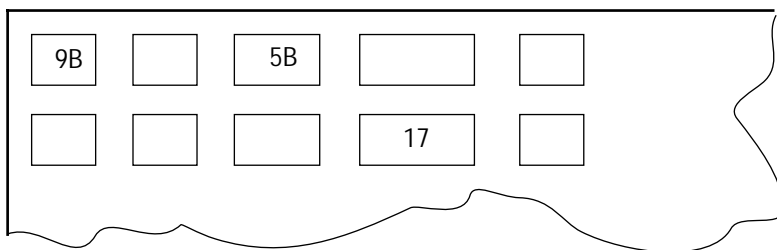
**Figure 2-6. Typical System Configuration**

### **For direct host power operation (LS 4005 only):**

When the IBM terminal is supplying power, plug the scanner directly into the scanner input port of the terminal. No additional power connections are necessary.

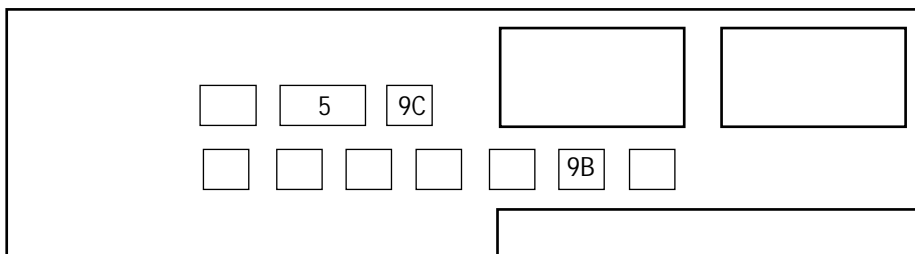


**Figure 2-7. IBM 4683 Rear Panel With Cover Removed**

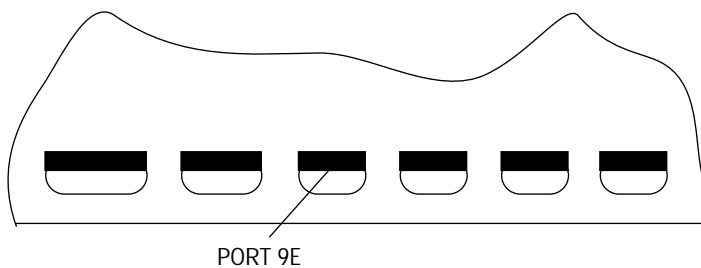


**Figure 2-8. IBM 4684 Rear Panel With Cover Removed**





**Figure 2-9. IBM 4693 Rear Panel With Cover Removed**



**Figure 2-10. IBM 4694 Rear Panel With Cover Removed**

## **Wand Emulation, OCIA, OCR, Keyboard Wedges**

See the instructions packed with the appropriate Synapse cable.