Chapter 3
Hardware Configuration

GENERAL

The FT 100 is factory configured to current industry standards. Because of the number of possible applications, the unit will require some option changes to fit a particular application.

This chapter describes the options that are configured with hardware on the printed circuit board (PCB). Hardware options are selected by two plug-on straps, a dip switch, and installing the interface adapter card. To access these options on the standalone unit, the cover must first be removed.

COVER REMOVAL

⚠ Warning

Do not remove the cover unless the power cord is unplugged.

1. Place the unit on its side on a flat surface.

2. Insert a medium size flat screwdriver blade in one of the bottom rear latch slots. Do not push the screwdriver but lightly pry the handle away from the unit as shown in Figure 3-1. This disengages the lock prong from the latch locks.

3. Assist removal by pushing the cover from the chassis with your fingers on the unit rear edges. Repeat this procedure with the remaining latch slots.

4. To replace the cover, align the latch locks, rear guide grooves, and front lock tabs.

5. Press the cover in place until the latch locks engage the lock prongs.
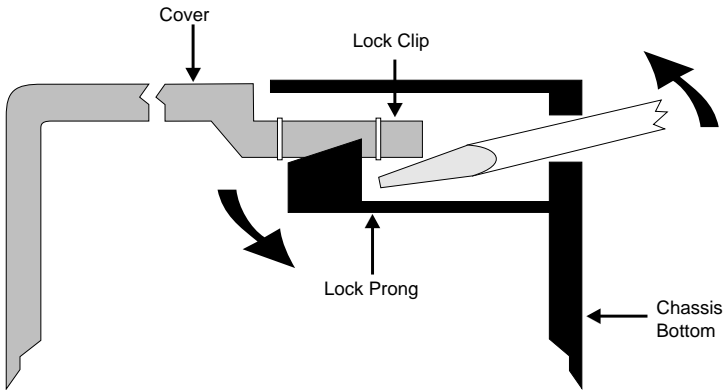
Figure 3-1
Cover Removal

CHANGING OPTION SETTINGS

Figure 3-2 shows the positions of the option straps, the dip switch, and the interface adapter card on the main printed circuit board. Figure 3-3 shows a typical strap application.

- To change a strap setting, lift the jumper strap off and insert it in the new position.
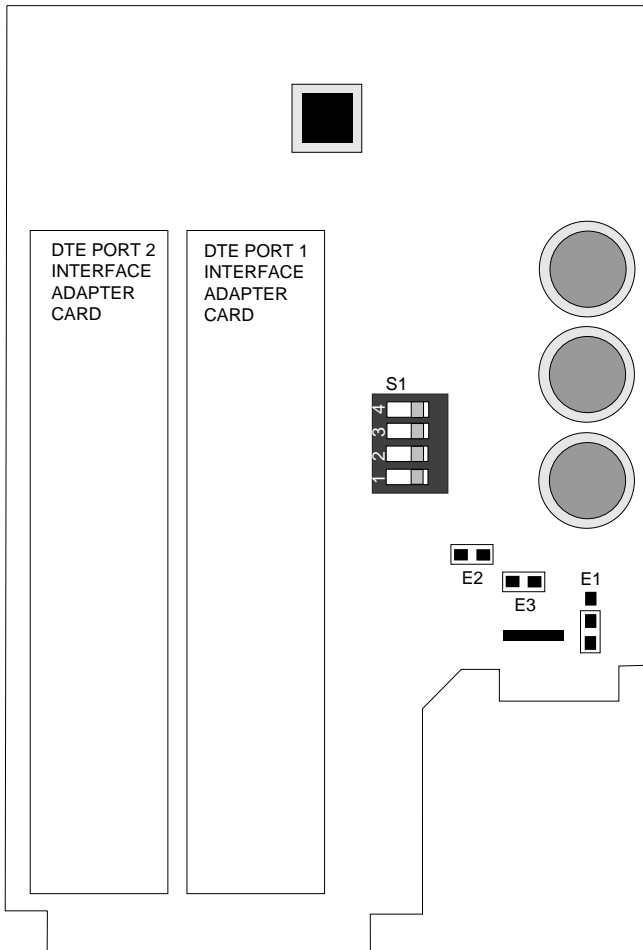- To change a switch position, use a pointed object to move the desired switch to ON or OFF.

Figure 3-2
Strap and Adapter Card Locations

Figure 3-3
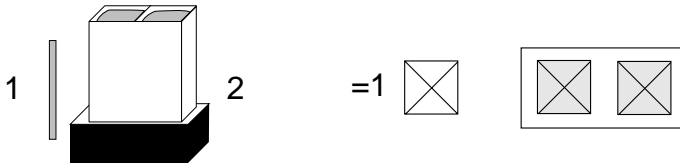***Strap Application***

Grounding

Signal ground is normally connected to chassis ground. If interference exists, isolate signal ground from chassis ground by moving strap E1 to

DTE INTERFACE OPTIONS

Several standard DTE interfaces are available.

Normally, the FT 100 is purchased with the required interface already installed. However, if application requirements change, the unit can be reconfigured.

The DTE interface type is selected by

- installing the appropriate adapter card onto the main printed circuit board and
- if required, installing an adapter for converting the DTE connector on the rear panel.

Installing an Interface Card

The interface adapter cards are located on the main printed circuit card as shown in Figure 3-2.

To remove a card, remove the stand off screws and carefully lift both ends of the card vertically to unplug the card.

Since the available interface adapter cards are used on various Motorola products, they may contain switches and straps that must be set according to the product on which they're to be used. For the FT 100 and FT 100EX, the settings are described in the table below. Option cards that were installed at the factory should already be configured properly.

V.35 Card	RS-530/449 Card	
#4563699 or 4563956	#4563507	#4563137
Switches 3, 4, 6 ON 1, 2, 5, 7, 8, OFF	Strapped for CHNL	Strapped for TM

For RS-232 type cards contact the Applications Department or you local distributor for configuration information.

To install a card,

1. Ensure the card is configured correctly.

2. Align the connectors.

3. Firmly press the adapter card down at both ends until the card fully seats.

4. Re-install stand off screws.

Using a Conversion Adapter

A DS-1, V.35, or RS-449 connector conversion adapter can be attached to the rear panel DTE connector. These adapters convert the existing 25-pin D-type DTE connector to a 34-pin V.35 connector or 37-pin RS-449 connector.

DS-1 conversion adapter converts the 25-pin D type DTE connector to an 8-pin modular telephone jack (RJ48C).