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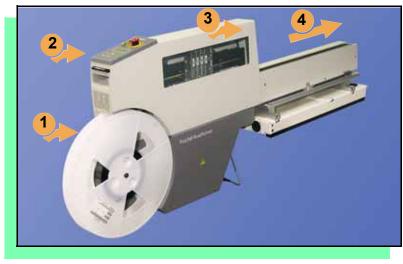
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The ProLINE-RoadRunner for MYDATA



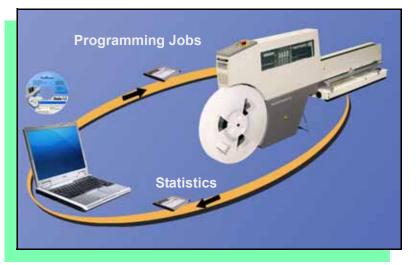
Data I/O is proud to introduce an inline solution for high-volume programming of electronic products.

ProLINE-RoadRunner:

- 1. Takes programmable devices from a reel...
- 2. Places them in sockets and programs them with your data...
- 3. Places them on a conveyor belt...
- 4. Delivers them to the pick point of your assembly machine. ■



Jobs and Statistics



TaskLink[™] for Windows[®] is required to process devices on ProLINE-RoadRunner.

TaskLink allows you to create and manage a job database and analyze job statistics.

PCMCIA cards (PC-cards) are used to transfer jobs and statistics between TaskLink and RoadRunner. A network connection can also be used.

For more information on TaskLink, see the TaskLink Help Menu. ■



Nose 6 5 4 3 7 2 8 1 9 10 Front

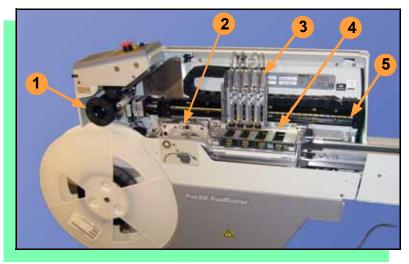


- 1. Power and Air Connections
- 2. Power Switch
- 3. Handhold for lifting
- 4. PC-card Slot and Eject button
- 5. Control Panel
- 6. Conveyor
- 7. Feeder Bank Adapter to SMT
- 8. Robotics Cover
- 9. Communications Cable (optional)
- **10. Electronics Enclosure**
- 11. Ethernet connection ■

External View



Internal Components



- 1. Cover Tape Take-Up Reel
- 2. Tape-In Module
- 3. PNP Head, Probes, and Precisor
- 4. Socket Adapter, Actuator Plate, and Programmer
- 5. Reject Bin ■



Control Panel Lamps



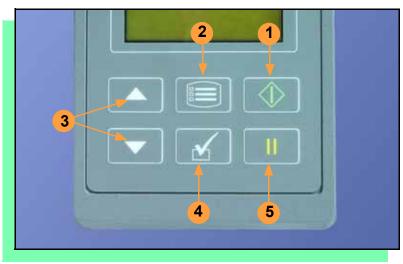




- 1. <u>Blue</u> Stop Indicator. User intervention is required, or the unit is paused. — CAUTION — Do not remove the PC-card unless blue lamp is lit.
- 2. <u>Yellow</u> Caution Indicator. Correct a problem or the RoadRunner will stop. Also, reading or writing to PC-card.
- 3. <u>Green</u> Run Indicator. *Lit:* A job is running. *Blinking:* Programmed devices are not yet at the SMT pick point.
- 4. <u>Emergency Stop</u> Press to stop the robot motors in an emergency. To resume motion, rotate the button and press Start. ■



Control Panel Buttons



- 1. Start start or resume the chosen job.
- 2. Menu exit to the previous menu, —or show the next message (deleting the current one), —or deselect an item to end a process.
- 3. Up and Down Arrows scroll through menu items, —ortoggle selections, —or advance the device tape.
- 4. Select select menu items. In this guide, Select Job means to scroll to Job and press Select.
- 5. Pause interrupt the job without cancelling it. ■



	Ø
U	

Main Menu Job Advance Pocket Align Pocket

Purge Socket

- Light gray shaded fields cannot be changed.
- For Advance Pocket, Align Pocket, and Purge, see Chapter 3 in the Owner's Manual.

Operator Menus

Job	
View	Job Name
	Device: E28F320
	Checksum: 3FC00000
	Mfg: INTEL
	Adapter: PA-G021
	Prec: 621-0086-005
	Act: 644-0016-001
	Encrypted: No
Results	Passed: 992
	Failed: 4
	System Yld: 98.7
	Prgrmr Yld: 99.6
	Handler Yld: 99.5
	Parts/Hour: 255
	MCBI: 201
	Skt 1 Yld: 99.9
	Skt 2 Yld: 100
	Skt 3 Yld: 100
	Skt 4 Yld: 100
	Skt Cycles: 249

Operator Menus are visible on the Control Panel, and can be navigated by using the Up Arrow and Down Arrow buttons.

Pressing the Menu button displays the next higher menu (one levelup). If you are at the main menu, pressing Menu will have no effect. Job is the first item in the main menu.

Operator Menus, Version 05.35.00.C shown, and continued on the next page. ■



Operator Menus, continued

So So So

A

Job	continued
End	
Remaining Devices	Remaining: 144
	+-1
	+-10
	+-100
	+-1000
	+-10000

• Light gray shaded fields can not be changed.

Socket	
ocket 1: Enabled	
ocket 2: Enabled	
ocket 3: Enabled	
ocket 4: Enabled	
dapter Statistics	Reset Clean Count
	Clean Count
	Clean Alert: 3500
	No: 22113204
	Mfg: 10/31/05
	Actuations:1055
	Adptr. Life: 10000
	Insertions: 4220
	Pass: 4202
	Fail: 16
	Yld: 99.5
	Socket 1
	Insertions: 1055 Pass: 1053
	Fail: 2
	Yield: 99.8
	Socket 2 [same as 1]
	Socket 3 [same as 1]
	Socket 4 [same as 1]
	Louine us 1]

Changing the Pass Limit To change the Pass Limit:

- 1. Select Job.
- 2. Select Remaining Devices.
- 3. Scroll to and Select an increment for adjustment.
- 4. Press the Up or Down Arrow buttons as necessary.

Press Menu. Repeat steps 3 & 4 if needed for another increment. ■





Supervisor Menus

cont.

Job 1
 Job 2

+-1

+-10

+-100

+-1000 +-10000

End of List

Remaining: 151

36.4.36				
Main Menu	Job			Job
Job	View	Job Name		End
Advance Pocket		Device:		Select
Align Pocket		Checksum: 3FC00000		
Purge		Mfg: INTEL		
Socket*		Adapter: PA-G021		Remaining
Home		Prec: 621-0086-005 ¹		Devices
Operation*		Act: 644-0016-001		
System [†]		Encrypted: No		
Robot Diagnostics [^]	Results	Passed: 992		
Programmer Diags^		Failed: 4		
Event Log^		System Yld: 98.7		
* See next page		Prgrmr Yld: 99.6	_	
† See 2 pages ahead		Handler Yld: 99.5		
[^] See 3 pages ahead		Parts/Hour: 255		
1 0		MCBI: 201 ²		
 HOME sends the 		Skt 1 Yld: 99.9		
PNP Head to the		Skt 2 Yld: 100		
Home position.		etc.		
 Light gray shaded 		Skt Cycles: 249		
fields cannot be		red on XLF models.		
changed.	· ·			
ondingou.		es Between Interrupts.		
	Part number	s shown here are for		

example only.

View the Supervisor Menus by inserting a PC-card with supervisor authority.

(The Supervisor menus are also on the next three pages.)

Supervisor (administrator) authorization is set in TaskLink. For more information, refer to TaskLink Help.

Version 05.35.00.C menus shown.

A (•) indicates the currently selected item.

A (►) indicates the current cursor position.



Supervisor Menus Continued

Socket		
Socket 1: Enabled		
Socket 2: Enabled		
Socket 3: Enabled		
Socket 4: Enabled		
Adapter Statistics	Reset Clean Count	
	Clean Count	
	Clean Alert: 3500	
	No: 22113204	
	Mfg: 09/23/02	
	Actuations:1055	
	Adptr. Life: 10000	
	Insertions: 4220	
	Pass: 4202	
	Fail: 16	
	Yld: 99.5	
	Socket 1	
	Insertions: 1055	
	Pass: 1053	
	Fail: 2	
	Yield: 99.8	
	Socket 2 [Same as 1]	
	Socket 3 [Same as 1]	
	Socket 4 [Same as 1]	

Operat	tion	
Job	Pick Retries: 2	
	Error Retries: 3	
	Pocket Pitch: 4	
	Pocket Advance: 3	
	Save Air: On	
	Belt	
	Clear Belt: On	
	Buffer: 1	
	Prefill: Enabled	
	Warning Msg: On	
Head	Velocity: 250	
	Accel: 700	
Probes	Puff: 50	
	Pick: 200	
	Place: 100	
	Travel: 250	
Teach	Tape: 40.0	
	Skt 1: -26.85	
	Reject: -166	
	Belt: -180	
	Restore Defaults	
• Light gr	av shadad fields can	'n

• Light gray shaded fields cannot be changed.

The Socket and Operation menus are expanded here. Refer to the previous page for the main menu.

> NOTE: Many of the values shown, such as the Teach and Network menus, are for illustration only.

To change languages, press Menu while pressing the Select button. Press the Down Arrow to the desired language and press Menu twice.





Supervisor Menus, continued

System	
Time	Hour: 4
	Minute: 55
	Month: 9
	Day: 23
	Year: 2002
Odometer	Hours: 469.92
	Devices: 24742
	Timekeeping: OFF
	Erase: 0.0s
	Blankcheck: 0.0s
	Program: 0.0s
	Verify: 0.0s
Update	
Software	
Network	Network Parm:Card
	NetworkTxt: Delete/Save
	Status: Enabled
	PGM: FredsRR2
	IP: 888.888.88.888
	Prog Port: 7596
	SUB: 255.255.248.0
	GTW: 139.138.16.1
	SNS: 0.0.0.0
	SNS Port: 7500

System	
Network (cont.)	HST: rr215.nt.data-io DOM: nt.data-io.com DNS: 888.888.888.88 DTS: 888.888.88 EAddr: 0010EC002211 Clear NetParms
Adapter Alarm:	On
Configura- tion	Firmware Version Ver 05.34.02.C Installed Boards Bkpln Brd Id: 2 EP860 80Mhz WFB FCIII Id: 160 Adptr Brd Id: 3 Hardware Config HwCfgIds 1, 3, 4 View Prog Keys Prog Key information Set Prog Key Remove Prog Key Model: [<i>name</i>] [-XLF] Feeder Comm:SBelt/FFI Reel Detect: Enable

Refer to the main Supervisor Menu for orientation (2 pages back).

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Supervisor Menus, continued

Robot	Diags	Robot	Diags	Programmer	Diags
Robot: Run Mode: Belt	Enabled Job/Dry Run Move:Fwd/Bkw Pick Sensor: 0 Speed: 400 ± 10 Measure Device Offset: 0.00 Repeatability Test Start	Probe 1– 4	State: Up Actuate: 0 Act.Dura- tion:150 ³ Position: Up Vacuum: Enabled Puff: Enabled Vac Sense: 1 Speed: 135 \pm 5	Program: Enabled Exercise Display Test Cycles: 3 Test All: PASS Bus Test: PASS Adtr ID Test: PASS LED Dvr Test: PASS G Node Test: PASS Vcc OC Test: PASS Vpp OC Test: PASS	Program- mer Diag- nostic tests require a Diagnostic Adapter Board for all items below
Sensors	Tape Sprocket: 0Tape Broken: 0Reject Full: 0Reject Bin: 1Air: 1Interlock: 0E-Stop: 0+Overtravel: 0Home: 1	cannot b ³ Socket A is set by	Head: 0 y shaded fields e changed. Actuation duration the Socket in some instances.	12C Bus Test: PASS DAC Ref Test: PASS GSlew Test: PASS High RAM Test: Continuity Loop: 3 Event Log View Clear	this line.

NOTE: Programmer Diags tests are only available with a Diagnostic Adapter Board (DAB).

The DAB is a tool that can be purchased, which thoroughly diagnoses FC programmers.

For more information about menu commands, see Chapter 3 of the ProLINE-RoadRunner Owner's Manual.





Warnings and Cautions

\triangleleft	Compressed Air	Point air hoses away from body. Always wear approved eye protection.
	Loud Noise	Sound pressure levels may exceed 85 db. Hearing protection is recommended for prolonged exposure at this level.
4	High Voltage	Disconnect power before removing the electronics cover.
	Heavy Object	This equipment weighs approximately 15 – 19 kg (33 – 41 lbs). Do not drop. Mount only with approved hardware.
	Moving Parts	Pinch warning. Keep hands away from moving parts.
\wedge	Electrostatic Discharge	Electrostatic Discharge (ESD) may cause damage. Discharge static against a common ground.





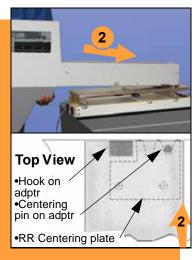
Mounting on the Assembly Machine..... 16 Connecting the Communications Cable (optional)......19 Connecting Power and Air 20 Turning the Power On 22





Mounting on the Assembly Machine





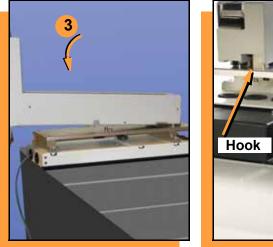
To mount the Feeder Bank Adapter and RoadRunner onto a MYDATA MY-Series Assembly Machine:

- 1. Slide the supplied Feeder Bank Adapter onto the Assembly Machine feeder table at the desired slot. Push it forward as far as it will go.
- 2. Slide RoadRunner under the hook on the Feeder Bank Adapter so that the RoadRunner centering plate teeth engage the pin next to the hook.

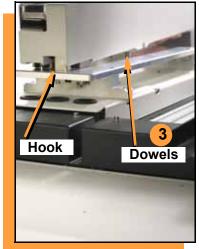


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Mounting, continued



- 3. Lower RoadRunner so the Adapter dowels mate up with the bushings in the RoadRunner Conveyor. Make sure that RoadRunner is secure.
- 4. Unless this Adapter or this RoadRunner has most recently been used at this SMT machine, adjust the Feeder Bank Adapter to align the pick points.

To align pick points:

4a. Compare the SMT pick point to RoadRunner's pick point.

(continued)





Mounting, continued



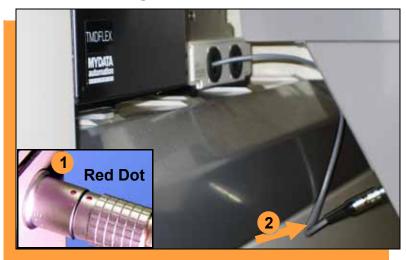


Adjust if necessary:

- 4b. Loosen four screws on top of the Feeder Bank Adapter.
- 4c. Screw the end screw in or out until the RoadRunner pick point (where the device stops on the conveyor) is aligned with the SMT pick point.
- 4d. Retighten the top screws. ■



Connecting the Communications Cable



To connect the Communications Cable:

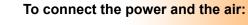
- 1. Grasp the communication cable attached to the Feeder Bank Adapter and orient the connector correctly— if there are red dots, they should line up.
- 2. Plug it into RoadRunner. The socket is located on the back side—facing the SMT machine.

To unplug the cable, pull back on the connector collar. ■



Connecting Power and Air





- 1. Turn the RoadRunner power switch to the Off (0) position.
- 2. Grasp the air hose behind the "quick connect" collar and push it firmly onto the male fitting. The collar must be allowed to move back as it goes onto the fitting.

NOTE: Compressed air must be clean and dry at approximately 5.25 kgf/cm²(75 psi).



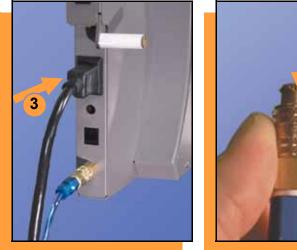
Warning:



Point Air Hoses Away From Body. Wear Approved Eye Protection.









NOTE: The air line is equipped with a "quick connect" that will stop airflow when disconnected.

To disconnect the air hose, grasp the collar on the connector and pull back.

3. Connect to a grounded power source using a cable with a standard IEC 320 plug.

> RoadRunner accepts power between 100 and 240 VAC, 50/60 Hz. ■



Turning the Power On





To turn the power on:

1. Push the power rocker switch to On (I).

All the Control Panel indicator lamps light up. A Self-test runs. Then only the blue lamp will remain on and the version number will display.

If all the indicator lamps start blinking, a serious error has occurred. Turn the unit off then on again. If the error remains, have the unit serviced.

2. If no errors dsplay, RoadRunner is operation ready. ■





Inserting a Job Card 24 Changing the Precisor 26 Changing the Actuator Plate..... 28 Changing the Socket Adapter..... 30 Adjusting the Tape-In Module 32 Loading a Reel of Devices 34 Aligning the Tape Pockets 36 Adding Network Communication..... 37



Inserting a Job Card





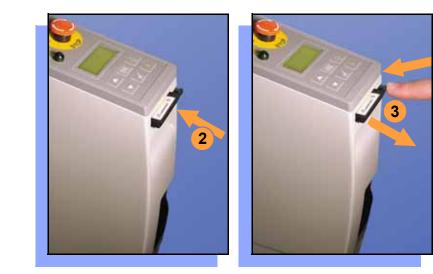
To run a job, insert a TaskLink job card into the PC-card slot. Use only TYPE I or TYPE II PC-cards (PCMCIA).

To insert a job card:

1. If the power is on, make sure the blue lamp is lit.







2. Slide the job card into the PC-card slot.

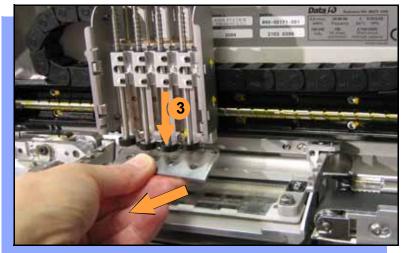
NOTE: When fully inserted, the job card extends slightly from the PC-card slot.

NOTE: Do not eject the card unless the blue lamp is lit (or the power is off).

3. The Card Eject button can be pushed to remove the card when the blue lamp is lit. ■



Changing the Precisor

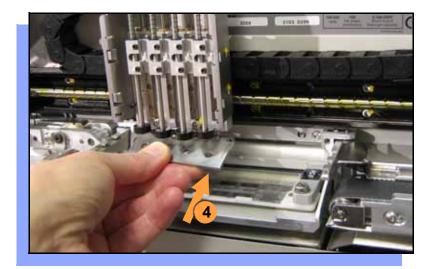


1. Select Job, then End, wait for the blue lamp to light and turn the power Off (0).

- 2. Lift off the Robotics Cover.
- 3. Pull the precisor down off the magnet. Starting at one end generally works best.





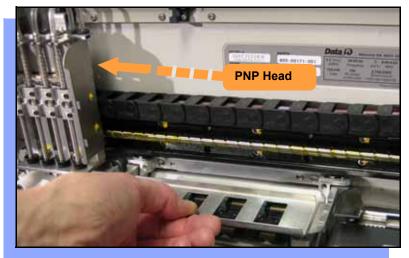


When inserting the new precisor, make sure that the part number faces up and that the small holes near the precisor edge fit over the dowel pins on the PNP head.

There should be no visible gap between the precisor and the head. ■



Changing the Actuator Plate





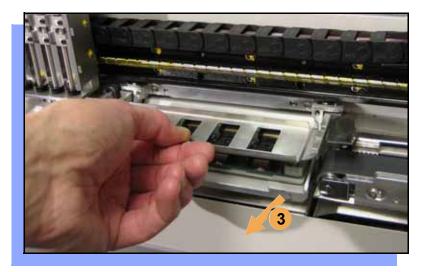
To change the Actuator Plate:

- 1. Select Job, then End, wait for the blue lamp to light and turn the power Off (0).
- 2. Lift off the Robotics Cover.

Once power is off, the PNP Head can be moved by hand to allow access to the Actuator Plate.







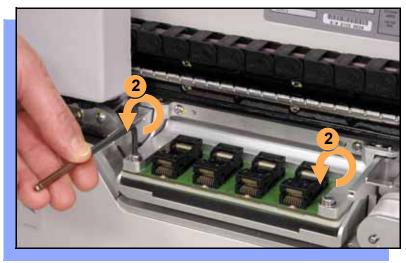
3. Pull the Actuator Plate to slide it out of the grooved brackets.

NOTE: The Actuator Plate must be removed to access or change the Socket Adapter.

To change the Socket Adapter, see the procedure on the following page. ■



Changing the Socket Adapter



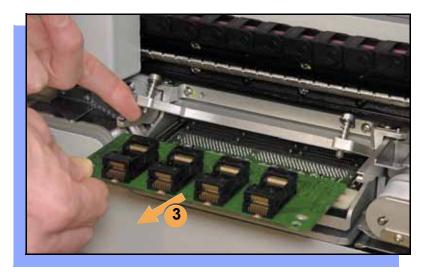


To change the Socket Adapter (with the Actuator Plate removed):

- 1. Make sure the power is Off (0).
- 2. Unscrew the two captive screws and lift the adapter bracket.







- 3. Without touching the gold contact surfaces on the bottom of the adapter, lift the adapter free.
- 4. Insert the correct adapter, making sure that it seats on the dowel pins.

NOTE: Each type of device may have its own Socket Adapter.

- 5. Tighten the screws.
- 6. Install and (if necessary) adjust the Actuator Plate. ■





Adjusting the Tape-In Module







If you have an Adjustable Tape-In Module, you may need to adjust it to match your tape width.

Adjustable Tape-In Module only— If the etched number on the three-position spacer does not match your tape width dimension (mm) then adjust it:

- 1. With the power off (0), push the PNP head out of the way.
- 2. Loosen the Position Locking Screw most of the way out using a 4 mm Allen wrench.



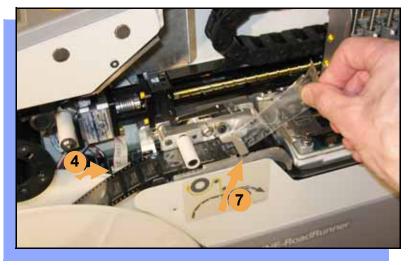


- 3. Rotate the three-position spacer with your finger until you read 16, 24 or 32, corresponding to your tape width (rotates one direction except when at 16).
- 4. Retighten the Position Locking Screw.
- 5. Rotate the Peel Bar counterclockwise 180 degrees to the up position.
- 6. Lift and move the magnetic Front Track to the position that fits your tape width.
- 7. Rotate the Peel Bar back down. ■



Loading a Reel of Devices





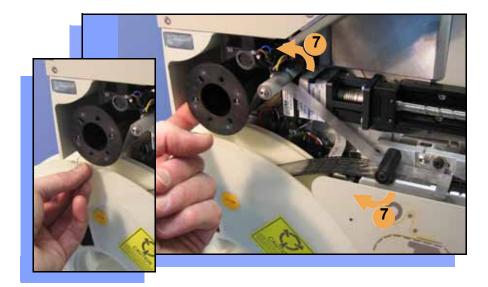
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To load and thread device tape:

- 1. Ensure you have the correct Tape-In Module/adjustment for your tape (tape fits in track).
- 2. Place a reel onto the RoadRunner spindle.
- 3. Lock the reel in place by rotating the brass button on the spindle end.
- 4. Insert device tape into the Tape-In Module and its sprocket.
- 5. With power on, select Advance Pocket from the menu, then press the Up Arrow button.

— CAUTION — Do not advance devices past the pick point: they may fall and jam the tape.





- 6. When the tape is advanced just past the Peel Bar, separate the cover tape from the device tape.
- 7. Thread the cover tape up through the cover tape path (see label on machine) and attach it to the Cover Tape Take-Up Reel. Advance the tape as necessary.

NOTE: A piece of adhesive tape will help stick the cover tape to the Take-Up Reel.

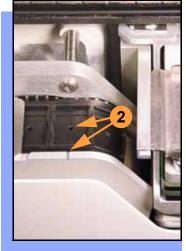
- 8. Wind up slack cover tape.
- 9. Press Menu to end the *advancing* procedure.
- 10. Align the tape pockets as described in the following procedure. ■



Aligning the Tape Pockets







To align the tape pockets:

- 1. Select Align Pocket from the Menu.
- 2. Press the Up Arrow to advance the tape until the next tape pocket center hole is approximately centered at the pick point alignment mark. *Do not* advance devices past the pick point. They may jam the tape path.
- 3. Press Menu to end this process.

NOTE: Perform this aligning procedure each time power is applied, including after releasing the Emergency Stop.



Adding Network Communication

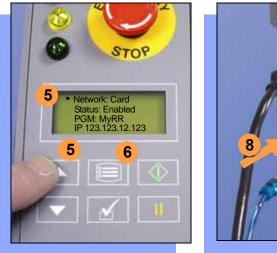


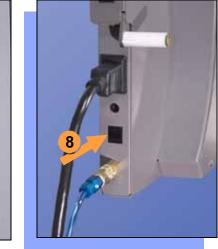
To connect RoadRunner to a network (optional):

- Create a Network card at a PC with TaskLink. See TaskLink's online Help: (Help > Help Topics > Using Networked RoadRunners > How to Configure RoadRunner).
- 2. Insert the Network card into RoadRunner.
- 3. On the RoadRunner Control Panel, scroll to and select System > Network.
- 4. Press Select again to edit.



Network Connection, continued







- 5. Using the arrow buttons, toggle Network to Card.
- 6. Press the Menu button to save your changes.
- 7. Cycle the power Off and then On.

NOTE: The network configuration file is deleted from the PC-card at the end of the process. This prevents accidentally configuring two RoadRunners with the same network settings.

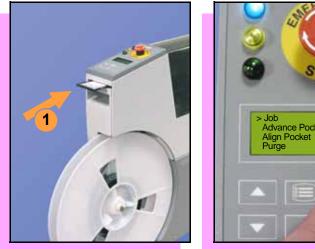
 Plug in a Network Cable. (10BaseT or 100BaseT) Only FC III & later programmers make use of the latter. ■



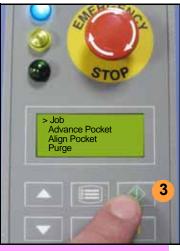
Running a Job40Pausing or Stopping a Job41Ending a Job42Emptying the Reject Bin44Emptying Cover Tape45Shutting Down46Restarting a Job48







Running a Job



To run a job:

- 1. Insert a job card into the PC-card slot.
- 2. Clear the conveyor belt of any unneeded devices.

NOTE: If the job card has Supervisor authority, ensure the correct job is selected. See Supervisor Menu.

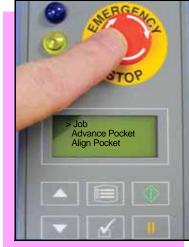
3. Press Start. The green lamp will start blinking.

When the programmed devices reach the assembly machine pick point, the belt will pause and the green lamp will stay lit without blinking.



Pausing or Stopping a Job





To pause at the end of the current operation:

• Press Pause on the Control Panel.

To instantly stop in an emergency situation:

• Press the Emergency Stop (E-Stop) button.

The E-Stop does not stop the Assembly Machine. ■

Warning



Electrical shock hazard. The E-Stop does not stop electricity to RoadRunner.





Ending a Job





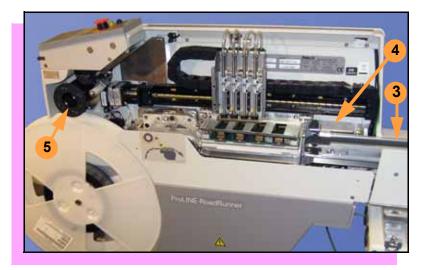
Whenever you want to change job cards, you must first end the current job.

To end the current job:

- 1. Press the Pause button.
- 2. Scroll to and select End from the Job Menu. "Job" is in the main menu.

The system will finish processing devices and place the devices on the belt, but no additional devices will get picked from the tape.

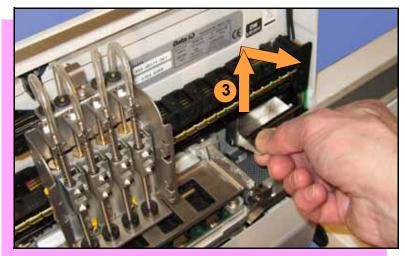




- 3. Clear away excess devices from the conveyor belt.
- 4. Empty the Reject Bin. (See next heading.)
- 5. Empty the Cover Tape Take-Up Reel. (See "Emptying Cover Tape" ahead several pages.) ■



Emptying the Reject Bin





To empty the Reject Bin:

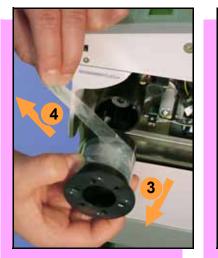
- 1. Press the Pause button.
- 2. Lift off the Robotics Cover.
- 3. Lift the Reject Bin straight up by the finger tab and then out.

When reinserting the Reject Bin, be sure the bin is *completely* lowered so that the tab is positioned out of the path of the probes. ■



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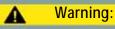


Emptying Cover Tape



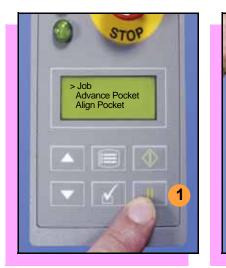
To empty the Cover Tape Take-Up Reel (during a job) when it looks full:

- 1. Press Pause.
- 2. Leaving enough slack to re-attach, cut the cover tape.
- 3. Pull the Take-Up Reel straight out and off the hub.
- 4. Unwind the used cover tape and discard it.
- 5. Replace the Take-Up Reel—slide it on and rotate it to line up with the pins, and push. ■



Pinch Warning. Keep Hands Away From Moving Parts.





Shutting Down



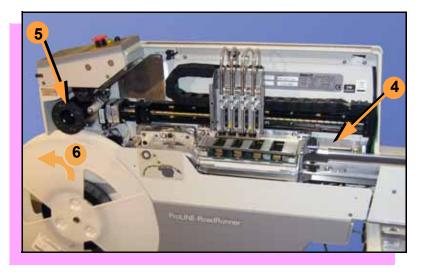
To turn off RoadRunner:

- 1. If a job is running: A. Press Pause.
 - B. Select End Job from the Job Menu and wait for all devices to be removed from the sockets.
- 2. Turn the power Off (0).
- 3. Remove devices from the conveyor belt.

continued

3





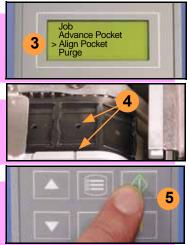
- 4. Empty the Reject Bin.
- 5. Empty the Take-Up Reel. (For more, see the previous heading.)
- 6. If removing the reel of devices, cut the empty tape where it exits at the far end of the conveyor, and then wind the reel backwards.
- 7. Turn off the air flow, or remove the air hose.

NOTE: When disconnecting the air hose, pull the connector collar back as you pull the connector off. ■





Restarting a Job





To restart a job after a Pause or an Emergency Stop:

- 1. Rotate the Emergency Stop button clockwise to release it, if applicable.
- 2. Press Menu until the main level menu is displayed
- 3. Select Align Pocket.
- 4. Press the Up Arrow to advance the device tape until the next pocket center hole lines up with the alignment mark (± 3 mm).
- 5. Press Start.

The job will resume. ■



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To prevent dust accumulation, inject compressed air into the following component areas:

NOTE: Compressed air must be clean and dry. ■

- Tape-In Module (weekly).
- Sockets (daily). Sockets should be opened and closed by hand while air is injected.



Cleaning with Air



Cleaning with Alcohol



To prevent dust and oil accumulations, clean the following component areas with isopropyl alcohol on a lint-free cloth.

- Chassis and Covers (every 3 months).
- Conveyor belt (daily). See "Device Rotation" in the Troubleshooting chapter.

NOTE: Dry the conveyor belt before rotating it.

These intervals are based on running 40,000 devices weekly. ■



> JobAdvance Pocket Align Pocket



Running the Self-Test



Run the Self-test procedure approximately once a week.

To run the Self-test procedure:

- 1. Press Pause or end a job if running.
- 2. Clear all devices from the sockets and from the conveyor belt.
- 3. Toggle the power switch Off and then back On.

The Self-test will run, checking the condition of the components.

4. Check the display for system errors. ■



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Viewing Errors





To view and correct errors:

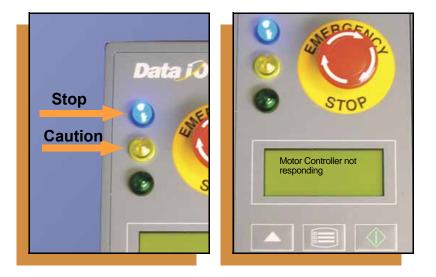
- Messages will appear in the key-1. pad display.
- 2. Check the condition—tape path, Reject Bin, etc.—indicated by the message.

If you cannot correct the error condition, contact a service technician.

3. Press Menu to remove the message.

If there are other error messages the next one will appear.





Some common error messages are listed below. For more information see "Troubleshooting" in the ProLINE-RoadRunner Owner's Manual.

Lamp Color	Error Message
No change in lamps	Card not present
Yellow	Reject Bin needs to be emptied
Blue	Cover tape broken
Blue	Emergency Stop is activated ¹
Blue	Motor controller not responding

¹Twist the Emergency Stop button to release it.





Enabling a Socket



If a socket repeatedly becomes disabled, RoadRunner should be serviced.

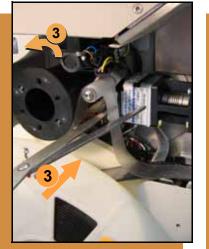
To re-enable a disabled socket:

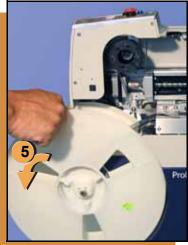
- 1. Press Pause if a job is running.
- 2. Select Socket from the top level menu.
- 3. Scroll to and select the disabled socket from the Socket menu. (A dot appears.)
- 4. Press the Up Arrow button to re-enable the socket.
- 5. Press Menu to end the process.

NOTE: To disable a probe, disable the probe's corresponding socket. ■



Removing Jammed Tape

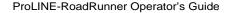




If the tape jams, an error message displays and the blue lamp illuminates. To clear the tape path:

- 1. Press the Emergency Stop button (to continue the job later) or select Job, then End.
- 2. Turn the power Off.
- 3. Unroll one turn of cover tape and cut it near the Take-Up Reel.
- 4. Cut the device tape where it exits the conveyor end.
- 5. Rotate the tape reel backwards until the tape end is free from the tape path.
- 6. Trim away any flaws before reloading. ■





Device Rotation







ProLINE-RoadRunner Operator's Guide



If devices rotate excessively on the conveyor belt:

- 1. Press Pause. Wait for all devices to get picked from the belt.
- 2. Press the Emergency Stop.
- 3. Remove the Dust Cover (some models) and clean only the exposed surface of the conveyor belt with isopropyl alcohol on a cloth, *then dry it*. Rotate the belt by hand and repeat until entire belt is clean.
- 4. To continue, replace the Conveyor Dust Cover, and release the Emergency Stop button. Align the tape pockets (Chapter 3), then press Start. ■

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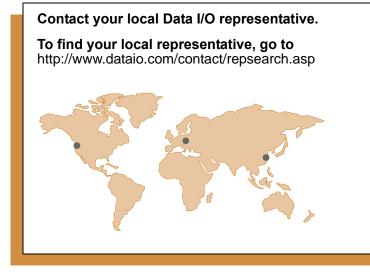
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