

# Domino F-Series i-Tech Spares Catalogue





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# Introduction

This document provides useful information about the current F-Series i-Tech ancillaries and spare parts including photography, part numbers and description of how to use the parts.

**Note**: This is a working document and will be continuously updated; the newest version of this document will always be available on MyDomino.

Should you have any questions relating to this Ancillaries & Spares Information please do not hesitate to contact me.

Gerd Gombert Technical Product Management – Laser

# **Controller Spares**

#### Controller

Image	Description	Quantity per kit
Connection Cable KR (weilable in 0.3, 4.3 and 9m) Lever Extension Box (contains filter readown Lever Head	L015324 Controller F220i (BCP7) Details: Controller for F220i with ETX BaseBoard 2.0 and F-DUB Board Stock Class: Service Engineer Only	I

#### **CF-Cards**

Image	Description	Quantity per kit
	Spare CF-Card Controller with Image	
	<b>EPT049047SP</b> - QuickStep2 Installed on latest machines. Hardware requirements: DIB 1.53 or later / ETX BB 2.0 or later Version: QS 2.4.52 / 4.1.0.18	
	<b>EPT039842SP</b> - QuickStep2 Previous standard image. Version: QS 2.4.50 / 4.1.0.14	
	L015372 – Dynamark 3.8 Needed for existing solution systems with special software installed. Hardware requirements: DIB 1.53 or later / ETX BB 2.0 or later	I
	<b>Details:</b> IGB Compact Flash card containing all programs and setup information to run the BCP7 controller.	
	<b>Stock Class:</b> Service Engineer Only	

# Controller PCBs

Image	Description	Quantity per kit
	<ul> <li>EPT033681 ETX Module 2.00 with Mini PCI Connector Spare</li> <li>Details: Single Board Computer module responsible for running the Operation System; used for non-real time print controlling, print data preparation, managing of variable data functions, external communication and data storage.</li> <li>Kit contains the CF Card (EPT049047SP)</li> <li>Note: This new ETX Exchange module contains the newer SBC. It may be used to replace the previous version of the ETX Baseboard module, but Software version has to be at least DI140918 (Dyn 3.7.0.27) or later. Previous versions of Dynamark are not supported by this ETX Baseboard. This kit comes with CF card installed.</li> <li>For a validated BCP7 controller or in case of any solution software installed, where the older ETX Baseboard is installed, the part L015352 has to be ordered (replacement PN for the old L015144). It contains the CF- card L015325 (Dyn 3.7.0.27).</li> <li>Stock Class: Service Engineer Only</li> </ul>	

Image	Description	Quantity per kit
	L014949 PCB D-Interface DIB 1.53 BCP7 Front Details: The front of the D-Series Interface Board offers all external interface connectors to harness the accessories, interface cables and the remote panel.	
	<ul> <li>Back Details: The back of the D-Series Interface Board shows the connectors and electrical components for interfacing of the ETX base board, power supplies, laser/scanner cable, E-Stop relay and optional boards. The board works as central point for the internal cable wiring.</li> <li>Stock Class: Service Engineer Only</li> </ul>	
<image/>	<ul> <li>L015327 SCI Board</li> <li>Front Details: The connector side of the shutter control interface board (SCI) offers all external interface connectors to connect the interface cables and accessories.</li> <li>Rear Details: The rear of the shutter control interface board (SCI) shows the connectors and electrical components for interfacing of the internal wiring. The board works as central point for the internal cable wiring.</li> <li>Stock Class:</li> </ul>	

Image	Description	Quantity per kit
	L015328 F-DUB Board Details: External interface connectors for connecting the laser extension box to ETX- Board X24, X27. Stock Class: Service Engineer Only	Ι
Shutter Sensor Board	L015329 SSB Board Details: The SSB Board is placed within the laser module and controls shutter position and drives shutter coil. Stock Class: Service Engineer Only	I
	EPT034396 Ethernet/IP KIT SP Details: Spare kit consisting of: Interface module Cables Caps Service Manual Stock Class: Service Engineer Only	 2   
ATTENDED OF	L015127 SP Dongle D+ Pharma Option Details: Spare Pharma dongle. Stock Class: Service Engineer Only	Ι

Image	Description	Quantity per kit
	L014930 PSU Kit PC/Scan Head BCP7 Power Data: +5V DC +/-15V DC +24V DC Stock Class: Service Engineer Only	Ι
ALLER OF A	L015326 – PSU Kit F-Series BCP7 Power Data: +26.2V DC adjusted Stock Class: Service Engineer Only	Ι

### **Controller PSUs**

Controller Cable Kit

Image	Description	Quantity per kit
	Connection Cable Kit	
	<ul> <li>Details: Each kit consists of I× Mains interconnection I× Conduit interconnection I× X24 → YAGDUB interconnection</li> <li>L015313 (0.5M) L015314 (4.5M) L015315 (9M)</li> <li>Stock Class: Service Engineer Only</li> </ul>	1 1 1

## Controller Electrical Spares

Image	Description	Quantity per kit
	L014953 Controller Fuse Kit BCP7	
Fuse F3 F2	Controller AC Mains (12.5A) Lase PSU (10A)	4 2
	<b>Stock Class:</b> Service Engineer Only	
TZOA	L014954 Extension Fuse Kit BCP7	4
HISON A	Extension Box AC Mains (20A)	
	<b>Stock Class:</b> Service Engineer Only	
	<b>L014896</b> E-Stop Kit BCP7	I
	<b>Details:</b> Key switch actuator with contact set.	
	Stock Class: Service Engineer Only	
	L014952 Key Switch Kit BCP7	I
	L014176 – Set of Two Keys	
	<b>Details:</b> Key switch actuator with contact set.	
	<b>Stock Class:</b> Service Engineer Only	
<b>()</b>	L014951 Push Button Kit BCP7	I
	<b>Details:</b> Push button actuator with contact and Label.	
	<b>Stock Class:</b> Service Engineer Only	

Image	Description	Quantity per kit
	L014176 Key, Set of 2 Details: Spare Keys for BCP7 controller.	I
	L015330 Shutter Safety Relay Kit Details: Shutter safety relay PILZ PNOZ mm0p, assembled with programmed Memory card and cables. Note: Only used with shutter systems Stock Class: Service Engineer Only	I
	L015075Safety Relay Kit BCP7Safety Relay Pilz PNOZ S4IOA (F3) FuseCablesNote: The cables are already connected to the safety relay.Stock Class: Service Engineer Only	   2

## Filters & Fans

Image	Description	Quantity per kit
	<b>L014870</b> Filter Pads <b>Details:</b> Filter pads for BCP6 and BCP7 controller.	5
	L015369 BCP7 Inlet Fans Details: Two fans with cable connected and 2-pin connector. Stock Class: Service Engineer Only	I

# Laser Head Spares

#### Laser Tube Assembly

Image	Description	Quantity per kit
	Laser Extension Box with Laser Module L015318 (no Shutter) L015319 (with Shutter) Stock Class: Service Engineer Only	I

#### Lenses

Image	Description Quantity per kit	
	Spare Lenses for F220i L015339 – Lens Assy 160mm (Up to 118x118mm marking field) EPT034925 – Lens Assy 250mm (Up to 187x187mm marking field) L015340 – Lens Assy 300mm (Up to 229x229mm marking field) L015344 – Lens Cap F-Series i-Tech10	
	Lens Cleaning ToolsEPT033842 - Lens CleaningCotton BallsEPT033843 - Lens CleaningCotton SwabsL105015 - Lens Cleaning Cloths	
	L015342ILaser Safety Goggles Fibre LaserLB8Details: Meeting requirementsof EN207 – Scale Number LB8	

#### Scanner

Image	Description	Quantity per kit
	L015320 Scan Head i-Tech 10mm F-Series Details: i-Tech 10mm Scan Head incl. labels for F-Series only! Stock Class: Service Engineer Only	I

### Scan Head Mounts

Image	Description	Quantity per kit
	L015321 Mount Scan Head F-Series Long Details: For i-Tech 10 Scan Head (F220i without Shutter) Stock Class: Service Engineer Only	I
	<ul> <li>L015322 Mount Scan Head F-Series Including Pilot</li> <li>Details: For i-Tech 10 Scan Head (F-Series).</li> <li>Note: For use with Shutter system &amp; Aiming option</li> <li>Stock Class: Service Engineer Only</li> </ul>	Ι
	L015323 Mount Scan Head F-Series Short Details: For i-Tech 10 Scan Head (F220i without Shutter). Stock Class: Service Engineer Only	I

# **Ancillaries & Spares**

#### Brackets & Mountings

Image	Description	Quantity per kit
	L014978 19" Bracket Cabinet Kit BCP7 Brackets Fixings Note: A second kit is needed to mount the laser extension box.	2
	L014907 Universal Controller Mount Kit BCP7 Universal Bracket Fixings Details: Used to mount the standard controller onto a wall, on the top of a DPX fume extraction system or together with the mounting block kit L014864 onto the laser stand F- Series i-Tech L015170.	Ι
	L014864 Mounting Block Kit Mounting Clamp Details: Mounting clamps to attach the controller with the universal mount L014907 at the laser stand F-Series i-Tech L015170.	2

### Stands

Image	Description	Quantity per kit
	<ul> <li>L015170         Laser Stand F-Series i-Tech         Laser stand to mount laser head and controllers with horizontal and vertical adjustments and quick clamps.         Note: For the following additional requirements please contact the Sales Support team at Domino Laser in Hamburg:             <ul> <li>frequent adjustments of a higher mechanical load</li> <li>horizontal support mounts</li> <li>extended vertical support mounts</li> <li>extended vertical support</li> <li>mounts</li> </ul> </li> </ul>	I
	L015171 Base Plate Laser F-Series i-Tech Details: For mounting the laser stand F-Series i-Tech onto the floor Four ground anchors can be drilled into the floor to give extra stability.	I
	L015172 Ring Clamp Laser Stand i-Tech Details: When you can't fix the base plate onto the floor by the means of drilling use this ring clamp. This ring clamp mounts the laser stand onto the holding ring of a KRONES labeller to create stability.	Ι

#### Fume Extraction

Fu Te B S S S S S S	L015181 Fume Extraction Nozzle Kit i- Tech Details: For mounting the fume extraction hose at the side of the scan head. Stock Class: Service Engineer Only	I

### Spare Cables

Image	Description	Quantity per kit
	L014461 Main Cable BCP6/7 (5M) Details: The mains cable is used to deliver 110 or 230V. The cable comes without country specific plug with a length of 5M	I
	Connection Cable Kit F- Series L015313 (0.5M) L015314 (4.5M) L015315 (9M) Details: Set of connection cables between BCP7 controller (F220i) and Laser Extension box Stock Class: Service Engineer Only	   

Image	Description	Quantity per kit
	L014929 User Port IO Cable X27 (9m) BCP7	I
	<b>Details:</b> This cable allows access to the digital inputs and outputs of the User Port Board.	
	The User Port is a factory fitted option. This cable is delivered with the factory fitted option.	
	<b>Stock Class:</b> Service Engineer Only	
	Ethernet Cable RJ45 – TouchPanel	
	L014903 (5m Cable) L015118 (10m Cable)	I I
	<b>Details:</b> Non-crossed cable for connecting a TouchPanel 1 or 2 with an Ethernet Switch (RJ45 connector).	
	<b>Note:</b> When using this cable additional Mains cable is needed to supply TouchPanel! VEY1414 – EU Power Cable VEY1415 – US Power Cable	I
	<b>Stock Class:</b> Service Engineer Only	
	<b>L015072</b> Y-Cable X7, Multi BCP7 Controller to Single DPX	I
	<b>Details:</b> This 10m cable is needed when two BCP7 controllers have to be connected to one DPX unit.	
	<b>Stock Class:</b> Service Engineer Only	

Image	Description	Quantity per kit
	L014980 Machine Interface Cable X4 (9m) BCP7 Details: 9M cable to connect the customer machine interface (for example PCL) with the controller (X4 connector) Stock Class: Service Engineer Only	I
	<ul> <li>L014981 Interlock Cable X29 (9m) BCP7</li> <li>Details: 9m cable to connect the customer machine interface with the controller (X29 connector)</li> <li>Note: Only the following signals are transmitted: interlock, laser start, print go, printer ready</li> <li>Stock Class: Service Engineer Only</li> </ul>	I
	L015158 OEM D-Series Cable Kit (15m) L015224 - Mains power cable L050044 - DPX power cable L015122 - X7 vacuum extension L015121 - X4 machine Interface L015123 - X29 Interlock cable L015225 - X59 Ethernet Details: The OEM cable kit consists of above cables (length <u>15m</u> each):	       

#### **OEM Machine Interface / Interlock Cables**

### **Electrical Accessories**

Image	Description	Quantity per kit
	<b>EPT014479</b> Shaft Encoder Kit IP65 Shaft Encoder with IP65 sealing I 0m Cable (Fitted Connector) with Z-Pulse connected Coupling (Paguflex) Mounting Parts	   
	EPP003295 Product Detector (Reflector) Product Detector Reflector 5m Cable (Fitted Connector) Mounting Parts	   
	EPP003296 Product Detector (Proximity) Product Detector 5m Cable (Fitted Connector) Mounting Parts	1
	EPP003297 Product Detector (Inductive) Product Detector 5m Cable (Fitted Connector) Mounting Parts	I
	L014934 Beacon BCP7 24V Four Colour Beacon BCP7 5m Cable (Fitted Connector)	I

Image	Description	Quantity per kit
<image/>	L014989 Connector Kit BCP7 Details: Included with every new laser systems delivery. <i>Kit Components:</i> Fitting Hose Elbow M5 to 6mm Gasket M5 Fittings T-nuts Bulgin PX0733 dust cover Self-adhesive rubber foot 20.6x20.6x7.5mm D+ felt foot Protection cap for flange connector IP67 Cap for Chassis bushing IP67 X7 connector - 0322 06 X29 connector - 0322 07 X23 connector - 0322 08-1 X4 connector - 0322 12 X2 connector - 0332 05 X28 connector - 0332 07 X3 / X6 connector - 0332 08-1 Stock Class: Service Engineer Only	   Set 4 2 8 4 6 1 1 1 1 1 1 1 2

#### Ethernet

Image	Description	Quantity per kit
Construction of the second of	<ul> <li>83380</li> <li>Ethernet Switch Hub</li> <li>Details: Ethernet switch hub connecting multiple controllers to a customer network or one HMI (e.g. TouchPanel).</li> <li>Stock Class: Service Engineer Only</li> </ul>	I
	Ethernet D+ Cabinet - External L014851 (2m Cable) L014852 (5m Cable) L014853 (10m Cable) Details: Non-crossed Ethernet cable in 2m, 5m & 10m from the BCP7 controller (Bulgin) to external RJ45. E.g. Switch or customer PC. Note: A cross over adapter might be required.	1
	Ethernet Cabinet – ExternalL014848 (5m Cable) L014849 (10m Cable)Details: Crossed Ethernet cable in 5m & 10m from the BCP7 controller (Bulgin) to the TouchPanel.Note: When using this cable additional Mains cable is needed to supply TouchPanel! VEY1414 – EU Power Cable VEY1415 – US Power CableStock Class:	1
	VEY1414 – EU Power Cable	

Image	Description	Quantity per kit	
	RJ45 Ethernet Cable X59 BCP7		
	L014904 (5m Cable) L015112 (10m Cable)	I	
	<b>Details:</b> Crossed cable for connecting the BCP7 controller (X59) with an Ethernet Switch (RJ45 connector) or Laptop.		
	<b>Note:</b> A cross over adapter might be required.		
	L014898 COM Interface Cable X23 (5m) BCP7	I	
	<b>Details:</b> 5m cable providing a COM / RS232 connection from the X23 socket of the BCP7 controller to a 9W D-Type connector (data lines uncrossed).		
	L014899 COM Crosslink Cable X23 (5m) BCP7	I	
	<b>Details:</b> 5m crossover cable providing a COM / RS232 connection from the X23 socket of the BCP7 controller to a 9W D-Type connector (data lines crossed).		

Image	Description	Quantity per kit	
	<ul> <li>L014910 X29 Test-Box / Trigger-Button 1.01 BCP7</li> <li>Details: The test-box can be used to trigger prints for test purposes. With the buttons and LEDs the laser can be started and stopped, the "print go" can be generated and the status is visible.</li> <li>Attention: Because the interlock circuit is shorted inside the connector the box is only intended for test and installation use by trained laser service technicians. General laser safety cannot be ensured with this tool!</li> <li>Stock Class: Service Engineer Only</li> </ul>	Ι	
	<ul> <li>L014908 Remote-Box Kit BCP7</li> <li>Details: This kit can be used to start and stop the laser remotely. LED's inside the buttons deliver information about the printer ready</li> <li>Status. Customer machine interface (for example a PCL) can be connected simultaneously.</li> <li>Stock Class: Service Engineer Only</li> </ul>		

Image	Description	Quantity per kit
	L014895 Pharma OQ Extender Board BCP7 Details: This extender board with its DIP-switches is used for the OQ as part of a Pharma Validation. Validation pack is available under PN: L025406 Stock Class: Service Engineer Only	

# **TouchPanel 2**

#### TouchPanel 2 / TouchPanel Cable

Image		Description	Quantity per kit	
Image: Second		<b>EPT015276</b> TouchPanel 2 (with Software) BCP7 <b>Note:</b> Shipped without any Ethernet cable.	Ι	
		Ethernet Cable X59 Controller to TouchPanel L015211 (5M Length) L015212 (10M Length) Note: These cables replace L014905 / L014906 and can also	I	
		be used to connect TouchPanel I. <b>Stock Class:</b> Service Engineer Only		

See TouchPanel Spares Catalogue - 25407 for further spares, available on MyDomino Manuals Portal.

Image	Description	Quantity per kit	
	<b>EPT028096</b> TouchPanel Arm <b>Details:</b> Used to mount a TouchPanel I or 2 to a surface Including Screws and Washers	I	
	EPT014751 Long Arm Assembly, TouchPanel Details: This bracket offers a mounting option for the TouchPanel I or 2 on a wall. Stock Class: Service Engineer Only	I	
TOUCH PARES	EPT014752 Short Arm Assembly, TouchPanel Details: This bracket offers a mounting option for the TouchPanel I or 2 on a wall. Stock Class: Service Engineer Only	I	
	<b>EPT013622</b> Adaptor Plate Assembly - DPX <b>Details:</b> Simple bracket to mount the TouchPanel I or 2 on tables or other surfaces (on the top of a DPX).	I	

## TouchPanel 2 / TouchPanel Cable

#### **Guarding Label Kits**

Image	Description	Quantity per kit	Stock Class (Customer/ Service Engineer)
<image/> <image/> <section-header><section-header><section-header><section-header><text><text><text><text></text></text></text></text></section-header></section-header></section-header></section-header>	L007628 Western Europe / Americas Languages: English (US), English (UK), French, Spanish, German, Italian, Dutch L012611 Asian Languages Languages: Thai, Trad. Chinese, Indonesian, Simpl. Chinese, Korean, Japanese, Malaysian, English L012614 Central Europe Languages Languages: Croatian, Czech, Hungarian, Polish, Romanian, Slovenian, English L012617 South Eastern European Languages Languages: Bulgarian, Greek, Macedonian, Russian, Serbian, Turkish, Ukrainian, English L012620 North European Languages Languages: Danish, Estonian, Finnish, Latvian, Lithuanian, Norwegian, Swedish, English EPT016307 Middle Eastern Languages Languages: Arabic, Hebrew, Farsi, English	Each Set contains: 4x Laser Triangle 1x per language: Warning of invisible radiation and Class I housing including Class4 Laser	SE

# **Documentation**

#### **Documentation Packs**

Image	Description					
	F-Series Docu	mentation	Pac	:k		
Domino F-Series	Details: All of t generic CD-ROI information.	M with the f	follov	wing		
	Lanuage English	Product Manuer User Guide & Menu Mar EPT009702	ptions Solutions X	onarma Guide ion X	i ouide X	×
User Documentation	French	EPT009703	x	x	x	x
7 Annual 1	German	EPT009704	x	x	x	x
	Dutch	EPT009705	x	X	X	X
F2201	Spanish	EPT009706	x	x		X
	Italian	EPT009707	x	x	6 - B	0.127
Domina Domore	Br-Port	EPT009708	x	x		
	Russian	EPT009709	x	x	9 - 18 1 - 13	
	Simpl. Chinese	EPT009710	x	1		
	Korean	EPT009711	x			
	Polish	EPT009712	x			
	Romanian	EPT009713	x			
	Hungarian	EPT009714	x			
	Danish	EPT009716			<u> </u>	
	Finnish	EPT009717	x			
	Turkish	EPT009718	X			
	Swedish	EPT009719	x			
	Japanese	EPT009720	X			

# Notes