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DTC4500 User Guide



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Table of Contents

Section 1: Specifications 5 Regulatory Compliances 5 Agency Listings 6 United States 6 Canada 6 Canada 6 Canada 7 Traditional Chines Re Emissions and Safety Statements 7 Simplified Chinese 7 Safety Messages (review carefully) 9 9 Technical Specifications 10 Frinter Components: Print Ribbons 14 Printer Components: Blank Cards 16 Section 2: Setup and Installation Procedures 17 Choosing a Good Location 17 Unpacking and Inspection 17 Unpacking and Inspection 17 Unpacking and Inspection 18 Installing the Ribbon 18 Installing the Ribbon 18 Installing the Ribbon 19 Installing the Card Size for CR79 and CR80 20 Section 3: Print Driver Installation 32 Connecting the Printer power 33 Soft Missoft ID 33 Using the Card Size for CR79 and CR80 33	DTC4500 User Guide	1
Regulatory Compliances 5 Agency Listings 6 United States 6 Canada 6 Environmental Protection (China-RoHS) 7 Traditional Chinese RF Emissions and Safety Statements 7 Sinsplified Chinese 8 Safety Messages (review carefully) 9 Technical Specifications 10 Functional Specifications 14 Printer Components: Print Ribbons 14 Ribbon Types/Count Table 15 Printer Components: Blank Cards 16 Section 2: Setup and Installation Procedures 17 Choosing a Good Location 17 About Moisture Condensation 17 Unpacking and Inspection 17 Installing the Print Ribbon Cartridge (DTC4500) 18 Installing the Ribbon 18 Installing the Noble Cartridge (DTC4500) 19 Installing the Card Hopper (DTC4500) 20 Using the Card Size for CR79 and CR80 23 Connecting the Printer Power 27 Section 3: Print Driver Installation 32 Symift ID 34 <tr< th=""><th>Section 1: Specifications</th><th>5</th></tr<>	Section 1: Specifications	5
Agency Listings 6 United States 6 Canada 6 Environmental Protection (China-RoHS) 7 Traditional Chinese RF Emissions and Safety Statements 7 Simplified Chinese 8 Safety Messages (review carefully) 9 Prochnical Specifications 10 Functional Specifications 14 Printer Components: Print Ribbons 14 Ribbon Types/Count Table 15 Printer Components: Blank Cards 16 Section 2: Setup and Installation Procedures 17 Choosing a Good Location 17 About Moisture Condensation 17 Unpacking and Installation QPTC4500) 18 Installing the Ribbon 18 Installing the Ribbon 19 Installing the Ribbon 20 Using the Dual Hopper 20 Using the Card Size for CR79 and CR80 23 Connecting the Printer power 27 Section 3: Print Driver Installation 32 Installing Swift ID 34 Printer Installation Net Card Hopper (DTC4500) 33 C		
United States 6 Canada 6 Environmental Protection (China-RoHS) 7 Traditional Chinese RF Emissions and Safety Statements 7 Simplified Chinese 8 Safety Messages (review carefully) 9 Prechrical Specifications 10 Functional Specifications 14 Printer Components: Print Ribbons 14 Ribbon Types/Count Table 15 Printer Components: Blank Cards 16 Section 2: Setup and Installation Procedures 17 About Moisture Condensation 17 Upacking and Inspection 17 Installing the Print Ribbon Cartridge (DTC4500) 18 Installing the Ribbon 18 Installing the Ribbon 19 Installing the Ribbon 20 Setting the Card Size for CR79 and CR80 23 Connecting the Printer power 27 Connecting the Printer Prover 27 Sortion 3: Print Driver Installation 32 Installing Swift ID 37 Option No. 1 37 Option No. 2 38 Installing Swift		
Canada 6 Environmental Protection (China-RoHS) 7 Traditional Chinese RF Emissions and Safety Statements 7 Sinplified Chinese 8 Safety Messages (review carefully) 9 Technical Specifications 10 Functional Specifications 14 Printer Components: Print Ribbons 14 Ribbon Types/Count Table 15 Printer Components: Blank Cards 16 Section 2: Setup and Installation Procedures 17 Choosing a Good Location 17 Mositure Condensation 17 Unpacking and Inspection 17 Installing the Print Ribbon Cartridge (DTC4500) 18 Installing the Print Ribbon Cartridge (DTC4500) 20 Using the Dual Hopper 20 Using the Card Size for CR79 and CR80 23 Connecting the Printer Installation 23 Connecting the Printer tower 27 Section 3: Print Driver Installation 32 Shift D Installation Instructions 32 Shift D Installation Instructions 32 Section 3: Print Componetic Stab Connection 37		
Environmental Protection (China-RoHS) 7 Traditional Chinese RF Emissions and Safety Statements 7 Simplified Chinese 8 Safety Messages (review carefully) 9 Technical Specifications 10 Functional Specifications 14 Printer Components: Print Ribbons 14 Ribbon Types/Count Table 15 Printer Components: Blank Cards 16 Section 2: Setup and Installation Procedures 17 About Moisture Condensation 17 Unpacking and Inspection 17 Unpacking and Inspection 17 Installing the Print Ribbon Cartridge (DTC4500) 18 Installing the Ribbon Cartridge (DTC4500) 19 Installing the Ribbon Proceedures 20 Section 3: Print Driver Installation 20 Section 4: Print Prover Installation 20 Social the Dual Hopper 20 Social tip Blank Cards into the Card Hopper (DTC4500) 20 Setting the Card Size for CR79 and CR80 23 Connecting the Printer power 27 Section 3: Print Driver Installation 29 Swift ID Installation Instruct		
Traditional Chinese RF Emissions and Safety Statements 7 Simplified Chinese 8 Safety Messages (review carefully) 9 Technical Specifications 10 Functional Specifications 14 Printer Components: Print Ribbons 14 Ribbon Types/Count Table 15 Printer Components: Blank Cards 16 Section 2: Setup and Installation Procedures 17 Choosing a Good Location 17 Uppacking and Inspection 17 Uppacking and Inspection 17 Installing the Print Ribbon Cartridge (DTC4500) 18 Installing the Ribbon 18 Installing the Ribbon 19 Installing the Ribbon 20 Using the Dual Hopper 20 Outing the Card Size for CR79 and CR80 23 Connecting the Printer power 27 Section 3: Print Driver Installation 32 Section 4: Driver Installation 33 Printer Installed On Network 35 Printer Installed On Network 37 Option No. 1 37 Option No. 2 38	Environmental Protection (China-RoHS)	7
Simplified Chinese 8 Safety Messages (review carefully) 9 Technical Specifications 10 Functional Specifications 14 Printer Components: Print Ribbons 14 Ribbon Types/Count Table 15 Printer Components: Blank Cards 16 Section 2: Setup and Installation Procedures 17 Choosing a Good Location 17 About Moisture Condensation 17 Unpacking and Inspection 17 Installing the Print Ribbon Cartridge (DTC4500) 18 Installing the Ribbon 19 Installing the Ribbon 19 Installing Blank Cards into the Card Hopper (DTC4500) 20 Using the Card Size for CR79 and CR80 23 Connecting the Printer power 27 Section 3: Print Driver Installation 29 Swift ID Installation Instructions 32 Installing Swift ID 37 Option No. 1 37 Option No. 2 37 Using the Toolbox Options 38 Additional Swift ID Pates 38 Vadditional Swift ID Pates 38 <tr< td=""><td></td><td></td></tr<>		
Safety Messages (review carefully) 9 Technical Specifications 10 Functional Specifications 14 Printer Components: Prink Ribbons 14 Ribbot Types/Count Table 15 Printer Components: Blank Cards 16 Section 2: Setup and Installation Procedures 17 Choosing a Good Location 17 About Moisture Condensation 17 Installing the Prink Ribbon Cartridge (DTC4500) 18 Installing the Prink Ribbon Cartridge (DTC4500) 18 Installing the Ribbon 19 Installing the Ribbon 19 Installing the Ribbon 19 Installing the Card Size for CR79 and CR80 20 Using the Dual Hopper 20 Section 3: Print Driver Installation 29 Swift ID Installation Instructions 32 Installing Swift ID 34 Printer Contected Via USB Connection 37 Option No. 1 37 Option No. 2 37 Using the Cond Size for CR79 and CR80 38 Section 4: Printer Preferences Tab Functions 39 Using the Cond tab		
Technical Specifications 10 Functional Specifications 14 Printer Components: Print Ribbons 14 Ribbon Types/Count Table 15 Printer Components: Blank Cards 16 Section 2: Setup and Installation Procedures 17 Choosing a Good Location 17 About Moisture Condensation 17 Uppacking and Inspection 17 Installing the Rinkbon Cartridge (DTC4500) 18 Installing the Ribbon 18 Installing the Ribbon 19 Installing the Ribbon 20 Using the Dual Hopper 20 Setting the Card Size for CR79 and CR80 23 Connecting the Printer power 27 Section 3: Print Driver Installation 29 Swift ID Installation Instructions 32 Installing Swift ID 34 Printer Connected Via USB Connection 37 Option No. 1 37 Option No. 1 38 Additional Swift ID Rules 38 Section 4: Printer Preferences Tab Functions 38 Using the Condox Options 40 <td< td=""><td>Safety Messages (review carefully)</td><td>9</td></td<>	Safety Messages (review carefully)	9
Functional Specifications 14 Printer Components: Print Ribbons 14 Ribbon Types/Count Table 15 Printer Components: Blank Cards 16 Section 2: Setup and Installation Procedures 17 Choosing a Good Location 17 Mobut Moisture Condensation 17 Uppacking and Inspection 17 Installing the Print Ribbon 18 Installing the Ribbon 18 Installing the Ribbon 19 Installing the Ribbon 20 Using the Dual Hopper 20 Section 3: Print Driver Installation 20 Section 3: Print Driver Installation 20 Swift ID Installation Instructions 32 Installing Swift ID 34 Printer Installed On Network 35 Printer Connected Via USB Connection 37 Option No. 1 38 Option No. 2 37 Using the Card tab 38 Section 4: Printer Preferences Tab Functions 38 Section 4: Printer Preferences Tab Functions 39 Using the Card tab 39 Using the		
Printer Components: Print Ribbons 14 Ribbon Types/Count Table 15 Printer Components: Blank Cards 16 Section 2: Setup and Installation Procedures 17 Choosing a Good Location 17 About Moisture Condensation 17 Unpacking and Inspection 17 Installing the Print Ribbon 18 Installing the Ribbon 18 Installing the Ribbon 19 Installing the Ribbon 19 Installing the Card Size for CR79 and CR80 23 Connecting the Printer power 20 Setting the Card Size for CR79 and CR80 23 Connecting the Printer Installation 29 Swift ID Installation Instructions 32 Setting Swift ID 34 Printer Connected Via USB Connection 37 Option No. 1 38 Additional Swift ID 38 Setting the Card tab 39 Using the Card tab 39 Using the Card tab 39 Using the Card tab 40 Using the Card tab 41 Section 4: Printer Preferences Tab Funct		
Ribbon Types/Count Table 15 Printer Components: Blank Cards 16 Section 2: Setup and Installation Procedures 17 Choosing a Good Location 17 About Moisture Condensation 17 Unpacking and Inspection 17 Installing the Print Ribbon Carridge (DTC4500) 18 Installing the Ribbon 18 Installing the Ribbon 19 Installing the Cards into the Card Hopper (DTC4500) 20 Using the Caud Size for CR79 and CR80 23 Connecting the Printer power 27 Section 3: Print Driver Installation 29 Swift ID Installation Instructions 32 Installing Swift ID 34 Printer Connected Via USB Connection 37 Option No. 2 37 Option No. 2 38 Section 4: Printer Preferences Tab Functions 39 Using the Cond group Box 41 Using the Condy Constant and table 43 Section 4: Printer Preferences Tab Functions 39 Using the Condy Joins 41 Using the Configuration Tab 41 Using the Configuratio		
Printer Components: Blank Cards 16 Section 2: Setup and Installation Procedures 17 Choosing a Good Location 17 Motout Moisture Condensation 17 Unpacking and Inspection 17 Installing the Print Ribbon 18 Installing the Ribbon 18 Installing the Ribbon 19 Installing the Ribbon 20 Setting the Card Size for CR79 and CR80 23 Connecting the Printer power 27 Section 3: Print Driver Installation 29 Swift ID Installation Instructions 32 Installing Swift ID 34 Printer Installed On Network 35 Printer Installed On Network 37 Option No. 1 37 Option No. 2 37 Using the Card tab 38 Section 4: Printer Preferences Tab Functions 39 Using the Configuration Tab 41 Using the Configuration Tab 41 Using the Configuration Tab 41 Section 4: Printer Preferences Tab Functions 39 Using the Configuration Tab 41 <td< td=""><td></td><td></td></td<>		
Choosing a Good Location 17 About Moisture Condensation 17 Nabut Moisture Condensation 17 Installing the Ribbon 17 Installing the Ribbon 18 Installing the Ribbon 18 Installing the Ribbon 19 Installing the Ribbon 19 Installing the Cards into the Card Hopper (DTC4500) 20 Using the Dual Hopper 20 Setting the Card Size for CR79 and CR80 23 Connecting the Printer power 27 Section 3: Print Driver Installation 29 Swift 1D Installation Instructions 32 Installing Swift 1D 34 Printer Installed On Network 35 Printer Connected Via USB Connection 37 Option No. 1 38 Additional Swift 1D 38 Additional Swift 1D Rules 39 Using the Card tab 39 Using the Card tab 40 Using the Card tab 41 Using the Carditac Laminator tab 42 Selecting the Calibrate Ribbon tab 43 Selecting the Calibrate Ribbon tab		
Choosing a Good Location 17 About Moisture Condensation 17 Nabut Moisture Condensation 17 Installing the Ribbon 17 Installing the Ribbon 18 Installing the Ribbon 18 Installing the Ribbon 19 Installing the Ribbon 19 Installing the Cards into the Card Hopper (DTC4500) 20 Using the Dual Hopper 20 Setting the Card Size for CR79 and CR80 23 Connecting the Printer power 27 Section 3: Print Driver Installation 29 Swift 1D Installation Instructions 32 Installing Swift 1D 34 Printer Installed On Network 35 Printer Connected Via USB Connection 37 Option No. 1 38 Additional Swift 1D 38 Additional Swift 1D Rules 39 Using the Card tab 39 Using the Card tab 40 Using the Card tab 41 Using the Carditac Laminator tab 42 Selecting the Calibrate Ribbon tab 43 Selecting the Calibrate Ribbon tab	Section 2: Setup and Installation Procedures	17
About Moisture Condensation 17 Unpacking and Inspection 17 Installing the Print Ribbon Cartridge (DTC4500) 18 Installing the Ribbon 19 Installing the Ribbon 19 Installing the Ribbon 20 Using the Dual Hopper 20 Setting the Card Size for CR79 and CR80 23 Connecting the Printer power 27 Section 3: Print Driver Installation 29 Swift ID Installation Instructions 32 Installing Swift ID 34 Printer Installed On Network 35 Printer Connected Via USB Connection 37 Option No. 1 37 Option No. 2 37 Uninstalling Swift ID 38 Additional Swift ID and the Card tab 38 Section 4: Printer Preferences Tab Functions 39 Using the Configuration Tab 41 Using the Configuration Tab 41 Using the Colobox Options 41 Using the Colibrate Ribbon tab 43 Selecting the Calibrate Ribbon tab 43 Selecting the Calibrate Ribbon tab 43 <		
Unpacking and Inspection 17 Installing the Print Ribbon Cartridge (DTC4500) 18 Installing the Ribbon 19 Installing Blank Cards into the Card Hopper (DTC4500) 20 Using the Dual Hopper 20 Setting the Card Size for CR79 and CR80 23 Connecting the Printer power 27 Section 3: Print Driver Installation 29 Swift ID 32 Installing Swift ID 34 Printer Installed On Network 35 Printer Installed On Network 35 Printer Connected Via USB Connection 37 Option No. 1 37 Option No. 2 37 Using the Card tab 38 Additional Swift ID Rules 38 Section 4: Printer Preferences Tab Functions 39 Using the Configuration Tab 41 Using the Configuration Tab 41 Using the Calibrate Laminator tab 43 Selecting the Calibrate Ribbon tab 43 <td></td> <td></td>		
Installing the Print Ribbon Cartridge (DTC4500) 18 Installing the Ribbon 18 Installing the Ribbon 19 Installing the Ribbon 19 Installing the Ribbon 19 Installing the Ribbon 20 Using the Dual Hopper 20 Setting the Card Size for CR79 and CR80 23 Connecting the Printer power 27 Section 3: Print Driver Installation 29 Swift ID Swift ID Setting Swift ID 32 Installing Swift ID 34 Printer Installed On Network 35 Printer Connected Via USB Connection 37 Option No. 1 37 Option No. 2 37 Uninstalling Swift ID 38 Additional Swift ID Rules 38 Section 4: Printer Preferences Tab Functions 39 Using the Card tab 39 Using the Configuration Tab 41 Using the Calibrate Laminator tab 42 Selecting the Calibrate Ribbon tab 43 Selecting the Calibrate Ribbon tab 43 Selecting the Colar Printer tab		
Installing the Ribbon 18 Installing the Ribbon 19 Installing Blank Cards into the Card Hopper (DTC4500) 20 Setting the Dual Hopper 20 Setting the Card Size for CR79 and CR80 23 Connecting the Printer power 27 Section 3: Print Driver Installation 29 Swift ID Installation Instructions 32 Installing Swift ID 34 Printer Installed On Network 35 Printer Connected Via USB Connection 37 Option No. 1 37 Option No. 2 37 Uninstalling Swift ID 38 Additional Swift ID Rules 38 Section 4: Printer Preferences Tab Functions 39 Using the Card tab 39 Using the Configuration Tab 41 Using the Configuration Tab 41 Using the Clean Printer tab 43 Selecting the Claibrate Ribbon tab 43 Selecting the Clean Printer tab 43 Selecting the Claibrate Ribbon tab 43 Selecting the Clean Printer tab 43 Selecting the Claibrate Ribbon tab 43		
Installing the Ribbon 19 Installing Blank Cards into the Card Hopper (DTC4500) 20 Using the Dual Hopper 20 Setting the Card Size for CR79 and CR80 23 Connecting the Printer power 27 Section 3: Print Driver Installation 29 Swift ID Installation Instructions 32 Installing Swift ID 34 Printer Installed On Network 35 Printer Connected Via USB Connection 37 Option No. 1 37 Option No. 2 37 Uninstalling Swift ID 38 Additional Swift ID Rules 38 Section 4: Printer Preferences Tab Functions 39 Using the Card tab 39 Using the Configuration Tab 41 Using the Configuration Tab 41 Selecting the Calibrate Laminator tab 42 Selecting the Calibrate Ribbon tab 43 Selecting the Calibrate Ribon tab </td <td></td> <td></td>		
Installing Blank Cards into the Card Hopper (DTC4500) 20 Using the Dual Hopper 20 Setting the Card Size for CR79 and CR80 23 Connecting the Printer power 27 Section 3: Print Driver Installation 29 Swift ID Installation Instructions 32 Installing Swift ID 34 Printer Installed On Network 35 Printer Installed On Network 37 Option No. 1 37 Option No. 2 37 Uninstalling Swift ID Rules 38 Additional Swift ID Rules 38 Section 4: Printer Preferences Tab Functions 39 Using the Card tab 39 Using the Configuration Tab 41 Using the Calibrate Laminator tab 42 Selecting the Calibrate Ribbon tab 43 Selecting the Calibrate Ribbon tab 44 Selecting the Color Profile Selection for the DTC4500 53 Us		
Using the Dual Hopper 20 Setting the Card Size for CR79 and CR80 23 Connecting the Printer power 27 Section 3: Print Driver Installation 29 Swift ID Installation Instructions 32 Installing Swift ID 34 Printer Installed On Network 35 Printer Connected Via USB Connection 37 Option No. 1 37 Option No. 2 37 Uninstalling Swift ID 38 Additional Swift ID Rules 38 Section 4: Printer Preferences Tab Functions 39 Using the Card tab 39 Using the Configuration Tab 41 Using the Calibrate Ribbon tab 42 Selecting the Calibrate Ribbon tab 43 Selecting the Advanced Settings tab 43 Selecting the Advanced Settings tab 53 Using the Device Options tab 53 Using the Coor Profile Selection for the DTC4500 59 Changing the Color Profile Selection for the DTC4500 59	Installing Blank Cards into the Card Hopper (DTC4500)	20
Setting the Card Size for CR79 and CR80 23 Connecting the Printer power 27 Section 3: Print Driver Installation 29 Swift ID Installation Instructions 32 Installing Swift ID 34 Printer Installed On Network 35 Printer Connected Via USB Connection 37 Option No. 1 37 Option No. 2 37 Uninstalling Swift ID 38 Additional Swift ID Rules 38 Section 4: Printer Preferences Tab Functions 39 Using the Cord tab 39 Using the Configuration Tab 41 Using the Configuration Tab 41 Using the Calibrate Laminator tab 42 Selecting the Calibrate Ribbon tab 43 Selecting the Advanced Settings tab 43 Selecting the Calibrate Ribbon tab 53 Using the Image Color tab 53 Using the Image Color tab 53 Using the Image Color tab 53 Using the Calibrate Ribbon tab 53 Using the Calibrate Ribbon tab 53 Using the Image Color tab 53 <tr< td=""><td></td><td></td></tr<>		
Connecting the Printer power 27 Section 3: Print Driver Installation 29 Swift ID Installation Instructions 32 Installing Swift ID 34 Printer Installed On Network 35 Printer Connected Via USB Connection 37 Option No. 1 37 Option No. 2 37 Uninstalling Swift ID 38 Additional Swift ID Rules 38 Section 4: Printer Preferences Tab Functions 39 Using the Card tab 39 Using the Configuration Tab 41 Using the Configuration Tab 41 Selecting the Calibrate Laminator tab 42 Selecting the Calibrate Ribbon tab 43 Selecting the Calibrate Ribbon tab 43 Selecting the Calibrate Ribbon tab 43 Selecting the Advanced Settings tab 45 Using the Image Color tab 53 Using the Image Color tab 59 Changing the Color Profile Selection for the DTC4500 59	Setting the Card Size for CR79 and CR80	23
Swift ID Installation Instructions 32 Installing Swift ID 34 Printer Installed On Network 35 Printer Connected Via USB Connection 37 Option No. 1 37 Option No. 2 37 Uninstalling Swift ID 38 Additional Swift ID Rules 38 Section 4: Printer Preferences Tab Functions 39 Using the Card tab 39 Using the Configuration Tab 40 Using the Configuration Tab 41 Using the Configuration Tab 41 Selecting the Calibrate Laminator tab 42 Selecting the Calibrate Ribbon tab 43 Selecting the Clean Printer tab 44 Selecting the Color profile Selection for the DTC4500 50 Changing the Color Profile Selection for the DTC4500 60		
Swift ID Installation Instructions 32 Installing Swift ID 34 Printer Installed On Network 35 Printer Connected Via USB Connection 37 Option No. 1 37 Option No. 2 37 Uninstalling Swift ID 38 Additional Swift ID Rules 38 Section 4: Printer Preferences Tab Functions 39 Using the Card tab 39 Using the Configuration Tab 40 Using the Configuration Tab 41 Using the Configuration Tab 41 Selecting the Calibrate Laminator tab 42 Selecting the Calibrate Ribbon tab 43 Selecting the Clean Printer tab 44 Selecting the Color profile Selection for the DTC4500 50 Changing the Color Profile Selection for the DTC4500 60	Section 3: Print Driver Installation	29
Installing Swift ID 34 Printer Installed On Network 35 Printer Installed On Network 35 Printer Connected Via USB Connection 37 Option No. 1 37 Option No. 2 37 Uninstalling Swift ID 38 Additional Swift ID Rules 38 Section 4: Printer Preferences Tab Functions 39 Using the Card tab 39 Using the Card tab 40 Using the Configuration Tab 41 Using the Event Monitoring Group Box 41 Selecting the Calibrate Laminator tab 42 Selecting the Calibrate Ribbon tab 43 Selecting the Clean Printer tab 44 Selecting the Color printer tab 45 Using the Device Options tab 53 Using the Image Color tab 53 Using the Image Color tab 53 Using the Color Profile Selection for the DTC4500 59 Changing the Color Profile Selection for the DTC4500 60	Swift ID Installation Instructions	32
Printer Installed On Network 35 Printer Connected Via USB Connection 37 Option No. 1 37 Option No. 2 37 Uninstalling Swift ID 38 Additional Swift ID Rules 38 Section 4: Printer Preferences Tab Functions 39 Using the Card tab 39 Using the Toolbox Options 40 Using the Configuration Tab 41 Using the Event Monitoring Group Box 41 Selecting the Calibrate Laminator tab 42 Selecting the Calibrate Ribbon tab 43 Selecting the Advanced Settings tab 44 Selecting the Color Profile Selection for the DTC4500 59 Changing the Color Profile Selection for the DTC4500 60	Installing Swift ID	34
Printer Connected Via USB Connection	Printer Installed On Network	35
Option No. 1 37 Option No. 2 37 Uninstalling Swift ID 38 Additional Swift ID Rules 38 Section 4: Printer Preferences Tab Functions 39 Using the Card tab 39 Using the Card tab 40 Using the Toolbox Options 40 Using the Configuration Tab 41 Using the Event Monitoring Group Box 41 Selecting the Calibrate Laminator tab 42 Selecting the Calibrate Ribbon tab 43 Selecting the Clean Printer tab 44 Selecting the Advanced Settings tab 45 Using the Image Color tab 53 Using the Color Profile Selection for the DTC4500 59 Changing the Color Profile Selection for the DTC4500 60		
Option No. 2 37 Uninstalling Swift ID 38 Additional Swift ID Rules 38 Section 4: Printer Preferences Tab Functions 39 Using the Card tab 39 Using the Card tab 40 Using the Toolbox Options 40 Using the Configuration Tab 41 Using the Event Monitoring Group Box 41 Selecting the Calibrate Laminator tab 42 Selecting the Calibrate Ribbon tab 43 Selecting the Clean Printer tab 44 Selecting the Advanced Settings tab 45 Using the Image Color tab 53 Using the Cloor Profile Selection for the DTC4500 59 Changing the Color Profile Selection for the DTC4500 60	Option No. 1	37
Uninstalling Swift ID 38 Additional Swift ID Rules 38 Section 4: Printer Preferences Tab Functions 39 Using the Card tab 39 Using the Toolbox Options 40 Using the Toolbox Options 40 Using the Configuration Tab 41 Using the Event Monitoring Group Box 41 Selecting the Calibrate Laminator tab 42 Selecting the Calibrate Ribbon tab 43 Selecting the Clean Printer tab 44 Selecting the Advanced Settings tab 45 Using the Image Color tab 53 Using the Color Profile Selection for the DTC4500 59 Changing the Color Profile Selection for the DTC4500 60	Option No. 2	37
Additional Swift ID Rules 38 Section 4: Printer Preferences Tab Functions 39 Using the Card tab 39 Using the Toolbox Options 40 Using the Configuration Tab 40 Using the Configuration Tab 41 Using the Event Monitoring Group Box 41 Selecting the Calibrate Laminator tab 42 Selecting the Calibrate Ribbon tab 43 Selecting the Clean Printer tab 44 Selecting the Advanced Settings tab 45 Using the Image Color tab 53 Using the Image Color rofile Selection for the DTC4500 59 Changing the Color Profile Selection for the DTC4500 60	Uninstalling Swift ID	38
Using the Card tab39Using the Toolbox Options40Using the Configuration Tab41Using the Event Monitoring Group Box41Selecting the Calibrate Laminator tab42Selecting the Calibrate Ribbon tab43Selecting the Clean Printer tab43Selecting the Advanced Settings tab45Using the Image Color tab53Using the Image Color tab56Changing the Color Profile Selection for the DTC450059Changing the Color Profile Selection for the DTC450060	Additional Swift ID Rules	38
Using the Card tab39Using the Toolbox Options40Using the Configuration Tab41Using the Event Monitoring Group Box41Selecting the Calibrate Laminator tab42Selecting the Calibrate Ribbon tab43Selecting the Clean Printer tab43Selecting the Advanced Settings tab45Using the Image Color tab53Using the Image Color tab56Changing the Color Profile Selection for the DTC450059Changing the Color Profile Selection for the DTC450060	Section 4: Printer Preferences Tab Functions	39
Using the Toolbox Options	Using the Card tab	39
Using the Configuration Tab41Using the Event Monitoring Group Box41Selecting the Calibrate Laminator tab42Selecting the Calibrate Ribbon tab43Selecting the Clean Printer tab43Selecting the Advanced Settings tab44Selecting the Device Options tab53Using the Image Color tab56Changing the Color Profile Selection for the DTC450059Changing the Color Profile Selection for the DTC450060		
Using the Event Monitoring Group Box41Selecting the Calibrate Laminator tab42Selecting the Calibrate Ribbon tab43Selecting the Clean Printer tab44Selecting the Advanced Settings tab45Using the Device Options tab53Using the Image Color tab56Changing the Color Profile Selection for the DTC450059Changing the Color Profile Selection for the DTC450060		
Selecting the Calibrate Laminator tab42Selecting the Calibrate Ribbon tab43Selecting the Clean Printer tab44Selecting the Advanced Settings tab45Using the Device Options tab53Using the Image Color tab56Changing the Color Profile Selection for the DTC450059Changing the Color Profile Selection for the DTC450060		
Selecting the Clean Printer tab44Selecting the Advanced Settings tab45Using the Device Options tab53Using the Image Color tab56Changing the Color Profile Selection for the DTC450059Changing the Color Profile Selection for the DTC450060		
Selecting the Clean Printer tab44Selecting the Advanced Settings tab45Using the Device Options tab53Using the Image Color tab56Changing the Color Profile Selection for the DTC450059Changing the Color Profile Selection for the DTC450060		
Selecting the Advanced Settings tab 45 Using the Device Options tab 53 Using the Image Color tab 56 Changing the Color Profile Selection for the DTC4500 59 Changing the Color Profile Selection for the DTC4500 60		
Using the Device Options tab53Using the Image Color tab56Changing the Color Profile Selection for the DTC450059Changing the Color Profile Selection for the DTC450060		
Using the Image Color tab56Changing the Color Profile Selection for the DTC450059Changing the Color Profile Selection for the DTC450060		
Changing the Color Profile Selection for the DTC450059Changing the Color Profile Selection for the DTC450060		
Changing the Color Profile Selection for the DTC450060		
Using the Image Calibrate tab 61		
	Using the Image Calibrate tab	61

Using the Magnetic Encoding Tab	62
	63
Using the Magnetic Encoding Tab – Custom Encoding or Raw Binary Encoding Mode	65
Reviewing the ISO Track Locations	67
Sending the Track Information	68
Reviewing the ASCII Code and Character Table	69
Using the Lamination tab	
Using the Overlay / Print Area tab	
Using the K Panel Resin tab	76
Using the Printer Info tab	79
Section 5: Card Lamination Module.	80
Reviewing the Card Lamination Module	
Choosing a Proper Location	
Preventing Moisture Condensation	81
Installing the Laminates	
Adjusting the Lamination Placement on the Card	86
Section 6: Selecting the Fluorescent Panel Ribbon Type	87
Creating a Custom Fluorescent Image (using the YMCFKO Ribbon)	87
Configuring Fluorescent Data (F-Panel for YMCFKO Ribbon) using the Application	89
Section 7: System Overview- Troubleshooting	93
Reviewing the DTC4500 Sequence of Operations	
Reviewing the DTC4500 Sequence of Operations	94
Section 8: Troubleshooting	95
Printer Error Button and Display Message Table	95
Using the Error Message Table	
Troubleshooting with the Error Message Table	98
Printer Specific Tools (DTC4500)	
Additional Printer Specific Tools	
Section 9: Cleaning	115
Safety Messages (review carefully)	115
DTC4500 Card Printer/Encoder Cleaning Kit	116
Supplies (included with the Cleaning Kit)	116
Printhead Cleaning	
Cleaning the Platen and the Card Feed Rollers	118
Cleaning the Printer's Interior	
Cleaning the Printer's Exterior	122
Section 10: Firmware Upgrades	123
Upgrade the Printer Firmware	123
Section 11: HID Global Technical Support	127
Reading the Serial Numbers on a Fargo Printer	128
Appendix A	129
Using the Defined Area Option	129
Configuring Fluorescent Data (F-Panel for YMCFKO Ribbon) using the Workbench	130

Section 1: Specifications

The purpose of this section is to provide you with specific information on the Regulatory Compliances, Agency Listings, Technical Specifications and Functional Specifications for the DTC4500 Card Printer User Guide.

Regulatory Compliances

Term	Description
CSA	The Printer manufacturer has been authorized by UL to
(cUL)	represent the Card Printer as CSA Certified under CSA Standard C22.2 No. 60950-1-03. IEC 60950-1 2 nd edition
	File Number: E145118
FCC	The Card Printer complies with the requirements in Part 15 of the FCC rules for a Class A digital device.
EMC	The Card Printer has been tested and complies with EN55022 / CISPR 22 Class A: and EN55024 standards.
	(Note: Based on the above testing, the Printer manufacturer certifies that the Card Printer complies with current EMC directive 2004/108/EC of the European Community and has placed the CE mark on the Card Printer.)
UL	The Card Printer is listed under UL 60950-1 (2 nd edition) INFORMATION TECHNOLOGY EQUIPMENT
	Note: This product is intended to be supplied by a Listed Power Unit marked Class 2 and rated for 24 V dc, 3.7 to 5A
Environmental	Power supply Efficiency level IV minimum. RoHS, China RoHS

Agency Listings

Term	Description
Emissions Standards	CE, FCCPart 15 Class A, CRC c1374, CISPR22 Class A, EN55022, EN55024, EN61000-3-2, EN61000-3-3,
Safety Standards	UL IEC 60950-1 (2001), CSA C22.2 No. 60950-1-03.

United States

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference; in which case, you will be required to correct the interference at his own expense.

Reference the Safety Messages in this document.

Canada

This Class A digital apparatus complies with Canadian ICES-003.

C'et appareil numerique de la classe A est comforme a la norme NMB-003 du Canada.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Environmental Protection (China-RoHS)

环境保护(中国-RoHS)

Environmental Protection Use Period is based on the product being used in an office environment.

环保使用期限是基于本产品用于办公室环境

Traditional Chinese RF Emissions and Safety Statements

传统中文 射频放射及安全指令

安全信息 (小心检查)



婆型式認證合格之低功率射頻電機,非經許可,公司,商裝或使用者均不得擅自變更頻率,加大功率或變更原設計之特 性及功能。低功率射頻電機之使用不得影響飛航安全及干浸合法通倍;經發現有于邊規兼時,顯立即接用,並改義至息 于邊賊方得纖續使用。前項合法通俗,換拔還倍法規定作業之無線環通俗。低功率射頻電機須忍受合法通俗或工業, 科學及醫療用電波輻射性電機設備之干滑。

Simplified Chinese

如何使用本手册

实际上, DTC4500 证卡打印机用户指南

是一本整个证书打印机的故障排除和服务手册。本手册旨在帮助安装人员和技术人员快速有效地查找相关 过程、组件和术语。安装人员或技术人员可根据自己的家好<u>,高效地使用本手册的电子文档或纸面文档</u>。

<u>安全消息(</u>请仔细阅读)

贫民	支全事項的重要说明
魚陰:	如果不遵循这些支载指南进行操作,可能会导致重伤,甚至死亡。
^	可能引发安全问题的信息由警告符号(如左图所示)来表示-
<u>/!\</u>	为了确保人身安全 ,在执行前面带有此符号的操作之前,请先阅读下面 的安全消息-
	为了确保人身安全 ,除非另有规定,否则在执行线修过程前,始终应断 开电源-
	为了确保人身玄全。 只能由有该格的人员执行这些过程。

安全消息(请仔细阅读)

祝토	支全事项的重要说明
<u>ታ</u> ይ፡	此设备为静电铁或设备。如果暴露在静电电流下,可能会损坏设备。
~	可能引发静电安全问题的信息由警告符号(如左图所示)来表示。
14	为了防止设备或介质受损 ,在执行前面带有此符号的操作之前,请先阅 读下面的安全消息。
	为了防止设备或介质受损 , 请在处理电路板积打印头部任中或附近的 电缆时, 遵守所有规定的静电放电 (ESD) 过程。
	为了防止设备或介质变损 , 请始终佩带适当的个人接地设备(例如,已 接地聚免出观潜在损坏的高质量腕带)。
	为了防止设备丢介质受损 ,除非另有规定,否则在执行任何维修过程前 ,始终应将色带和证卡与打印机分离。
	为了防止设备或介质受损 ,在操作打印机前, 请取下手指和手上的珠宝 饰物, 并将手上的油渍和污渍彻底清洗干净。

Safety Messages (review carefully)

Symbol	Critical Instructions for Safety purposes
Danger:	Failure to follow these installation guidelines can result in death or serious injury.
<u>_!</u>	Information that raises potential safety issues is indicated by a warning symbol (as shown to the left).
	• To prevent personal injury , refer to the following safety messages before performing an operation preceded by this symbol.
	• To prevent personal injury , always remove the power cord prior to performing repair procedures, unless otherwise specified.
	• To prevent personal injury , make sure only qualified personnel perform these procedures.
Caution:	This device is electrostatically sensitive. It may be damaged if exposed to static electricity discharges.
<u>/</u> 4	Information that raises potential electrostatic safety issues is indicated by a warning symbol (as shown to the left).
	• To prevent equipment or media damage , refer to the following safety messages before performing an operation preceded by this symbol.
	• To prevent equipment or media damage , observe all established Electrostatic Discharge (ESD) procedures while handling cables in or near the Circuit Board and Printhead Assemblies.
	• To prevent equipment or media damage , always wear an appropriate personal grounding device (e.g., a high quality wrist strap grounded to avoid potential damage).
	• To prevent equipment or media damage , always remove the Ribbon and Cards from the Printer before making any repairs, unless otherwise specified.
	• To prevent equipment or media damage , take jewelry off of fingers and hands, as well as thoroughly clean hands to remove oil and debris before working on the Printer.

Term	Function
Print Method	Dye Sublimation / Resin Thermal Transfer
Print resolution	300 dpi (11.8 dots/mm); continuous tone
Colors	Up to 16.7 million colors / 256 shades per pixel
Print Ribbon Options	 Full-color with resin black and overlay panel, YMCKO*, 500 prints
	 Full-color half-panel with resin black and overlay panel, YMCKO*, 850 prints
	 Full-color with two resin black panels and overlay panel, YMCKOK*, 500 prints
	 Full-color with fluorescing, resin black and overlay panel, YMCFKO*, 500 prints
	 Full-color with fluorescing, two resin black panels and overlay panels, YMCFKOK*, 400 prints
	 Full-color with two resin black panels and overlay panels, YMCKK*, 500 prints
	Resin black and overlay panel, KO*, 1250 prints
	Dye-sublimation black and overlay print, BO*, 1250 prints
	Resin black (standard and premium), 3000 prints
	Resin green, blue, red, white, silver and gold, 2000 prints
	Rewrite technology – No ribbon is required
	* Indicates the Ribbon type and the number of Ribbon panels printed where Y=Yellow, M=Magenta, C=Cyan, K=Resin Black, O=Overlay, F=Fluorescing Resin

Term	Function
Print Speed	• 7 seconds per card (K*)
	 12 seconds per card (KO*)
	 24 seconds per card (YMCKO*)
	 31 seconds per card (YMCKOK*)
	• Print speed indicates an approximate batch print speed and is measured from the time a card feeds into the Printer to the time it ejects from the Printer.
	 Print speeds do not include encoding time or the time needed for the PC to process the image.
	* Process time is dependent on the size of the file, the CPU, amount of RAM and the amount of available resources at the time of the print. Indicates the Ribbon type and the number of Ribbon panels printed where Y=Yellow, M=Magenta, C=Cyan, K=Resin Black, O=Overlay, F=Fluorescing Resin
Card Size and	• CR-80 (3.375"L x 2.1125"W / 85.6mmL x 54mmW)
Types Supported	• CR-79 (3.313"L x 2.063"W / 84.1mmL x 52.4mmW
Accepted Standard Card Sizes	 CR-80 edge-to-edge (3.36"L x 2.11"W / 85.3mmL x 53.7mmW)
	 CR-79 (3.3"L x 2.04"W / 83.8mmL x 51.8mmW)
Accepted Card Thickness	 Print Only: .009"040" / 9 mil – 40 mil / .229mm – 1.016mm
	 Print/Lamination: .030"040" / 30 mil – 40 mil / .762mm – 1.02mm

Term	Function
Accepted Card Types	PVC or polyester cards with polished PVC finish; monochrome resin required for 100% polyester cards; optical memory cards with PVC finish; rewrite
Input Hopper Card Capacity	Dual-Input Card Hopper (200 cards)
Output Hopper Card Capacity	100 cards (.030" / .762.mm)
Reject Hopper Card Capacity	100 cards (.030" / .762.mm) – same-side Input/Output Card Hopper or Lamination Module (required)
Card Cleaning	Card cleaning roller integrated into the Ribbon Drawer.
Printer Memory	32MB RAM
Software Driver	Windows® XP / Vista™ (32 bit & 64 bit) / Server 2003 & 2008 / Windows® 7 (32 bit & 64 bit) / Linux®
Interface	USB 2.0 and Ethernet with internal print server
Operating Temperature	65 degrees to 80 degrees F / 18 degrees to 27 degrees C
Humidity	20-80% non-condensing
Dimensions	Single-Sided Printer: 9.8 ⁻ /H x 18.1 ⁻ /W x 9.2 ⁻ /D / 249mmH x 460mmW x 234mmD
	Dual-Sided Printer: 9.8"H x 18.7"W x 9.2"D / 249mmH x 475mmW x 234mmD
	Printer + Lam: 18.9"H x 18.7"W x 9.2"D / 480mmH x 475mmW x 234mmD

Term	Function
Weight	Single-Sided: 9 lbs. / 4.1 Kg Dual-Sided: 11 lbs. / 5 Kg Dual-Sided: 20 lbs. / 9.1 Kg
Agency Listings	Safety: UL 60950-1, CSA C22.2 (60950-1), and CE; EMC; FCC Class A, CRC c1374, CE (EN 55022 Class A, EN 55024), CCC, BSMI, KCC
Supply Voltage	100-240 VAC, 1.6 A
Supply Frequency	50 Hz / 60 Hz
Warranty	Printer – Two years; Printhead – Two years, unlimited pass with UltraCard™
Encoding Options Supported	 125kHz (HID Prox) reader 13.56 MHz (iCLASS, MIFARE, ISO 14443 A/B, ISO 15693) read/write encoder Contact Smart Card Encoder reads from and writes to all ISO7816 1/2/3/4 memory and microprocessor smart cards (T=0, T=1) as well as synchronous cards ISO Magnetic Stripe Encoding, dual high- and low-coercivity, Tracks 1,2 and 3
Options	Single Wire Ethernet and USB 2.0 Interface for inline printing and encoding (Note: Single wire Ethernet encoding is only available for iCLASS and Contact Smart Card encoding); Dual- Sided Printing Module – Upgradable; Same-Side Input / Output Card Hopper – Upgradable; Smart Card Encoding (contact / contactless) – Upgradable; Magnetic Stripe Encoding – Upgradable; Printer Clearing Kit
Software	Swift ID™Embedded Badging Application, FARGO Workbench Diagnosis Utility
Display	Color changing status buttons

Functional Specifications

This Card Printer utilizes two different, yet closely related printing technologies to achieve its remarkable direct-to-card print quality for dye-sublimation and resin thermal transfer.

Printer Components: Print Ribbons

The Card Printer utilizes both dye-sublimation and/or resin thermal transfer methods to print images directly onto blank cards. Since the dye-sublimation and the resin thermal transfer print methods, each provide their own unique benefits, Print Ribbons are available in resin-only, dye-sublimation-only and combination dye-sublimation/resin versions.

To make it easier to remember which Print Ribbons are which, a letter code has been developed to indicate the type of Ribbon panels found on each Ribbon. This letter code is as follows:



Ribbon Types/Count Table

Ribbon type and count used in each Printer.

Ribbon	DTC4500
YMCKO – Full Color/Resin Black/Overlay	500
YMCKO Half Panel – Full Color (1/2)/Resin Black/Overlay	850
YMCFKO - Full Color/UV Fluorescing/Resin Black/Overlay	500
YMCKK - Full Color/2 Resin Black	500
YMCKOK - Full Color/2 Resin Black/Overlay	500
YMCFKOK - Full Color/UV Fluorescing/2 Resin Black/Overlay	400
K – Standard Resin	3000
K – Premium Resin	3000
Colored Resin	2000
KO - Premium Black Resin/Overlay	1250
BO - Dye-Sub Black/Overlay	1250
None – Rewritable	Supported

Туре	Description
Card Size	The Card Printer accepts standard CR-80 and CR-79 sized cards.
Card Surface	Suitable cards must have a polished PVC surface free of fingerprints, dust or any other types of embedded contaminants. In addition, cards must have a completely smooth, level surface in order for the Printer to achieve consistent color coverage.
	 Certain types of Proximity cards have an uneven surface that will inhibit consistent color transfer.
	• Certain types of smart card chips are raised slightly above the cards surface which also results in poor color transfer.
UltraCard™ Brand Cards	The UltraCard product line, available exclusively as part of HID's Global's brand secure card issuance solutions, has a long standing reputation among dealers and end-users for consistent quality in construction.
	 In addition to blank stock, the UltraCard line is available in a variety of configurations for magnetic stripe, custom holograms and other additional anti-counterfeiting features.
	 UltraCard[™] Premium is the preferred card for Direct-to-Card (DTC®) applications that require a higher quality card. The UltraCard Premium's composite material construction provides for maximum durability, flexibility and card life, with optimal resolution print quality for lamination and fluorescent panel Ribbon printing applications.
	 UltraCard[™] PVC cards are medium-durability cards for a glossy, photo quality finish. These cards are manufactured to ensure clean, scratch-free cards for high-quality prints and extended Printhead life.

Printer Components: Blank Cards

Section 2: Setup and Installation Procedures

This section describes the setup and installation for the DTC4500 Card Printers.

Choosing a Good Location

Follow these guidelines:

- Place the unit in a location with adequate air circulation to prevent internal heat build up.
- Use the Printer's dimensions as a guideline for the minimum clearances to the unit. (**Note:** Allow for adequate clearance in front of the unit to accommodate the unit with its Covers open.)
- Do not install unit near heat sources such as radiators or air ducts or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

About Moisture Condensation

If the unit is brought directly from a cold to a warm location or is placed in a very damp room, moisture may condense inside the unit. Should this occur, print quality may not be optimum.

Leave the unit unplugged in a warm, dry room for several hours before using. This will allow the moisture to evaporate.



Caution: For safety purposes, Ethernet is not intended for a direct connection outside of the building.

Unpacking and Inspection

While unpacking your Printer, inspect the carton to ensure that no damage has occurred during shipping. Make sure that all supplied accessories are included with your unit.

Check that the following items are included:

- Power Supply
- US / EU Power Cable
- USB cable (2.0)
- Software Installation CD
- User Guide
- Warranty Statement, Compliancy Document

Installing the Print Ribbon Cartridge (DTC4500)

Fargo Card Printers require highly specialized supplies to function properly.

- The Fargo DTC4500 Card Printer uses a refill system.
- To maximize Printer life, reliability, printed card quality and durability, you must use only Fargo-certified supplies.
- For this reason, your Fargo warranty is void, where not prohibited by law, if you use non-Fargo-certified supplies.
- Printer cleaning is recommended with each Ribbon change to ensure quality printed cards.
- Resin-only Print Ribbons consist of a continuous roll of a single resin color. No protective overlay panel (O) is provided since resin images do not require the protection of such an overlay.

Installing the Ribbon

Step	Procedure
1	Lift up the Cleaning Roller Cover.
2	Load the Print Ribbon into the Ribbon Drawer.

Installing the Ribbon

Procedure
a. Close the Cleaning Roller Cover.
b. Insert the new Cleaning roller.
c. Remove the Cleaning Roller liner.
Load the Ribbon Drawer into the Printer.

Installing Blank Cards into the Card Hopper (DTC4500)

Using the Dual Hopper

•

Step	Procedure
1	Pre-instruction.
	Caution: Do not run the cards with a contaminated, dull or uneven surface through the Printer
	• Printing onto such cards will ultimately lead to poor print quality and will greatly reduce the life of the Printhead. Card Types include PVC or PVC finish.
	Cards eject into the Output Hopper or Reject Hopper.
	Each Hopper holds 100 cards.
	The DTC4500 is available with two (2) Hopper configurations: IN/OUT Hopper and Dual Hopper
	• Certain types of smart card chips are raised slightly above the cards surface which may result in poor color transfer. Design the card with white space surrounding the chip. (Note: The Fargo DTC4500 Printer is capable of printing single load cards and multiple feed cards (batch mode).)
	• To print using single feed, simply remove all cards from the Card Hopper, leave the Card Hopper door closed and place a card in the single Feed Card Slot (which can be used repeatedly).
	• Again, the cards should be loaded with the print side down and (if applicable) the magnetic strip up and towards the front of the Printer.

Using the Dual Hopper

Step	Procedure
2	Open the Card Hopper Cover.
3	Press the Card Hopper Load Lever down until the Card Tray locks into place.

Using the Dual Hopper

Step	Procedure
4	Load up to 100 cards into the Hopper with the print side down. (Note: If using cards with a magnetic stripe, the magnetic stripe should be loaded with the stripe up and to the front of the Printer.)
	Display: Card loaded into the upper Hopper of DTC4500 Dual Hopper
	Display: Cards loaded into lower Hopper of DTC4500 Dual Hopper
5	Close the Card Hopper Cover to release the lever to the printing position.

Follow this procedure in the Printer and in the Printer Driver to setup the card size.

Step	Procedure
1	Remove the Ribbon Drawer and locate the slide bar

Step	Procedure
2	If using the CR79 card, push the slide bar to the LEFT.
	Push LEFT for CR79 card size

Step	Procedure
3	If using the CR80 card, push the slide bar to the RIGHT.
	Push RIGHT for CR80 card size
	The second se

Step	Procedure
4	From the Driver Printing Preferences, select the correct card size.

🌢 DTC4500 Card Printer Printing Preferences 🛛 🔹 🔀
Magnetic Encoding Lamination Overlay / Print Area K Panel Resin Printer Info Card Device Options Image Color Image Calibrate
CR-80 CR-80 CR-80 Pril CR-79 Pril CR-79 L114
Print Length: 3.362 Card Thickness 30
Orientation A O Portrait
Copies Card Hopper Selection
Diagnostics Test Print
About
OK Cancel Apply Help

Connecting the Printer power

Follow this procedure. (**Note:** Do not connect the Printer's USB cable until prompted during the Printer Driver installation.)

Step	Procedure				
1	Plug the AC adapter power cable into the back of the Printer.				
2	Plug the wall power cable into the AC power adapter.				
	Plug the wall power cable into a standard 100-240 VAC power outlet.				

Connecting the Printer power

Step	Procedure					
3	DTC4500 with Laminator: Plug the wall power cable into the AC power adapter. Plug the wall power cable into a standard 100-240 VAC power outlet.					
	Imminator Power Pinter Power					

Section 3: Print Driver Installation

This section describes the Printer Driver installation requirements and standard procedures. Requirements are listed below. The DTC4500 Print Driver supports the following:

- Windows Vista 32 bit w/SP2
- Windows Vista 64 bit w/SP2
- Windows XP 32 bit w/SP3
- Windows Server 2003 (R1) 32 bit
- Windows Server 2008 (R1) 32 bit w/SP2
- Windows Server 2008 (R1) 64 bit w/SP2
- Windows Server 2008 R2
- Windows 7 32 and 64 bit
- Linux OS (Ubuntu7.10, Red Hat Enterprise Desktop 5, Fecora Core 7 & 8, openSUSE 10.3, open NOVELL SUSE 10.). Contact HID/Fargo Technical Support for the driver.

For more information in supported operating systems, please visit: www.hidglobal.com

Driver Installation Instructions



Driver Installation Instructions

Start the installation process by inserting the Driver CD into the computer. Then, follow the Installaware Wizard screen prompts.

- Select Install the Printer Driver to start the installation.
- Select the Fargo Workbench Utility Program to install this program.
- Select the Swift ID[™] (Embedded Badging Application software) to install this program.
- All versions of Windows require Administrator rights.
- From the Printer & Faxes folder, open the Printing Preferences to setup the Driver after it has been installed.
- Printing Preferences need to be setup after the Driver has been installed. Each TAB is shown in the next section.
- Use the drop down arrows to select the correct options for each printing preference.
- Enable Swift ID over a USB connection: This item will be checked if the printer is setup to utilize Swift ID via a USB connection. When this box is checked the Ethernet connection (if applicable) on the printer will not be operational. If this selection is not be accessible, this is because the HID EEM driver that Swift ID uses to connect via a USB connection has not been installed. This driver can be found on the installation CD or it can be down loaded from the HID Global support page. The easiest method for enabling Swift ID is to un-install the printer and its components and go through the installation procedure and select that you would like to use the Swift ID application.

Swift ID Installation Instructions

Here are the related definitions for the Swift ID installation instructions.

- Swift ID: This is a 'built-in badging' application which enables Users to create simple ID badges without having to install any additional software. (Note: This application is only intended for use between one Printer and one PC. The application cannot select between Printers; also, only one Printer on a PC can access Swift ID.)
- **HID EEM Driver:** This Driver is used by Swift ID to communicate with the PC when connected via a USB cable. (**Note:** It is also known as an 'Ethernet Emulation Module'.)
- EEM Device Flag (i.e., Enable Swift ID over a USB connection): Check this item to utilize Swift ID via a USB connection. (Note: When this box is checked, the Ethernet connection (if applicable) on the Printer will not be operational.)
 - If this flag or selection is not accessible, it means the HID EEM Driver (that Swift ID uses to connect via a USB connection) has not been installed. (Note: This Driver can be found on the installation CD or it can be downloaded from the HID Global support page.)

Swift ID Installation Instructions (continued)

• Enabling Swift ID: The easiest method for enabling Swift ID is to (a) un-install the Printer Driver and its components, (b) complete the designated installation procedure, and (c) select the desired connection type for the Swift ID application: USB or ETHERNET.

Setting	Default	Current	^
Image Darkness	0	-3	
Mag Top of Form	0	0	1
Sleep Delay	120	120	
Print Top of Form	0	15	
Print End of Form	0	10	
Print Left of Form	0	13	
Cleaning Rate	3000	3000	
Ribbon Calibrate Green	0	151	
Ribbon Green LED Level	0	1	
Ribbon Calibrate Blue	0	124	
Apply Restore De			

Installing Swift ID



Printer Installed On Network

Perform this procedure for a Printer installed on a Network.

Step	Procedure				
1	Connect the Printer to the Network.				
2	Find the IP Address on a DTC4500. a. Navigate through the Printer display to reach the IP address. User Printer Settings Model: DTC1000 Serial Number: 00000005 FW Rev: 0.0.6.2 Feb 5 2010 IP Address: 10.244.69.70 MAC Address: 0:13:44:00:03:05 Image Darkness: 1 Print Top Of Form: 12 Print End Of Form: 16 Mag Top Of Form: 0 Ribbon Print Tension: -5 Resin Heat Adj: 10 Erase Heat Offset: 0 Write Heat Offset: 200 Head Resistance: 2770 Head Home Offset: 103 Display Contrast: 170 Sleep Delay: 120 min Cleaning Rate: 3000 cards Cards Since Cleaned: 186 Total Card Count: 186				
3	 a. Open up a Web Browser. b. Type the IP Address followed by /SwiftID.html to access the Swift ID badging application. For example: 10.244.69.70/SwiftID.html 				
4	You should see this page by using the Browser.				

HID		T Data Field Photo	Save Print Preview	Help Advanced					
Getting Started with Swift ID									
	Print a Card		it or Create Temp pany Name]	late					
	Your Corporation John Q. Sample			Head Shot]					
	123	45678	[En	nployee #]					
				Swift ID					
Printer Connected Via USB Connection

Perform this procedure when attempting to use Swift ID on the initial setup of a Printer connected via a USB connection. (**Note:** This application is not intended for use with multiple printers.)

• To start using Swift ID via a USB connection with a DTC1000, DTC4000, or a DTC4500 that has already been installed on the PC, please choose Option No. 1 or No. 2 and complete the procedure.

Step	Procedure
1	Follow the on-screen instructions during the Printer Driver installation process to install all the necessary components (in order to access Swift ID via a USB connection). (Note: The HID EEM Driver will be installed. A shortcut will be installed on the desktop, which allows you to easily launch the application. See below.)

Option No. 1

Step	Procedure
1	Uninstall the Printer Driver and go through the installation process again and check the box to use Swift ID

Option No. 2

Step	Procedure
1	Run the HID EEM Driver install from the Driver CD or download the HID EEM Driver install from the support page
2	Run the installation file
3	Once the Driver has been installed, enable the Enable Swift ID over a USB Connection flag in the advanced section of the Printer Driver. (Note: When this flag is checked, a new Printer instance will appear and the old Printer instance will no longer be valid.)

Uninstalling Swift ID

Please follow these instructions:

- For a printer installed on a Network: There are no steps needed to remove any of the components of Swift ID.
- For a printer that is connected via a USB connection: Disable the Enable Swift ID over a USB Connection flag in the advanced section of the Printer Driver and then 'run' the uninstall HID EEM Driver setup. (Note: When this flag is disabled, a new Printer instance will appear and the old Printer instance will no longer be valid.)

Additional Swift ID Rules

The following happens <u>when</u> (a) the HID EEM Driver for Swift ID has been installed on the PC for a Printer and (b) a second Printer with the EEM flag turned on is connected to the PC:

- A Printer instance will appear for the second Printer; however, a second shortcut for Swift ID will not appear. (**Note:** Swift ID is not intended to operate with two Printers.)
- If both Printers are connected to the PC, the Printer (that is first turned on) will be tied into Swift ID.

The following happens <u>when</u> (a) the EEM Driver has not been installed on the PC and (b) another Printer (same model) with the EEM flag turned off is connected to the PC. (**Note:** The Swift ID User Guide is located within the application.)

- A Printer Driver instance will appear.
- The User will not be asked to turn on the flag in the Printer.
- The HID EEM Driver will not be installed on the PC.
- The EEM flag in the Printer Driver will be 'greyed out'; so that the User cannot alter this state.

Section 4: Printer Preferences Tab Functions

This section provides an overview of the Printer Driver preferences tab.

Using the Card tab

Click on the Card tab to bring up the window (shown below). Refer to the **Help file** for the **Fargo Workbench Utility Program and User Guide**.

🕹 DTC4500 Card Printer Printing Preferences 🛛 ? 🔀			
Card Device Options	verlay / Print Area K Panel F Image Color 1	Select either CR-80 (ISO ID-1) or CR-79 sized cards for Card Size.	
CR-80	inches C mm	Click inches or mm to choose the desired unit of measurement.	
Print Width: 2.114 Print Length: 3.362		Select Print Print Width or Print Length for the desired Card Dimensions.	
Card Thickness 30 💌		Select Card Thickness (mil) as required for that dimension.	
		Select Portrait for vertical orientation and Landscape for horizontal orientation.	
Orientation		Select the number of copies.	
A • Portrait A	C Landscape	Select the correct Card Hopper.	
Copies Card <u>H</u> opper Select 1 + First Available	ction	Click on Diagnostics to bring up the Workbench Printer Utility.	
		Click on the Test Print button to send a self-test print to the Printer.	
Diagnostics	Test Print	Click on the About button to bring up	
ToolBox	About	the Copyright, Version, and Date Code information for Printer Driver Software.	
Click on the Toolbox button to bring up the Configuration,	Note: See below information on the		
Calibrate Ribbon, Clean Printe and Advanced Settings.	er, and Toolbox.		

Using the Toolbox Options

🍓 DTC4500 Card Printer P	rinting Preferences 🛛 🛛 🛛 🔀
Magnetic Encoding Lamination Card Device Option	
Card Size	● inches
Print Width:	2.114
Print Length: Card Thickness	3.362
Orientation Orientation	A C Landscape
Copies Card Hopper	
Diagnostics	Test Print
ToolBox	About
ОК	Cancel Apply Help

Using the Configuration Tab

This option is used to show the currently installed Optional Printer features, Event Monitoring, to set the Printer Driver language and Printer LCD Display language.

 To switch between languages, select the desired language and select OK twice, then reopen the driver in the new language

DTC4500 Card Printer
Configuration Calibrate Laminator Calibrate Ribbon Clean Printer Advanced Settings
Optional Printer Features: Automatically detect features that are installed in your printer Dual Sided Laminator Magnetic Encoder Dual-input Card Hopper Input/Output Card Hopper Event Monitoring
 From the list, select events to be monitored. The driver will notify or prompt the user when the selected events occur. ✓ Low Supplies (Ribbon, Laminate) ✓ Clean Printer ✓ Error Status ✓ Password Prompt
Set Language Printer LCD Display Unknown Image: Constraint of the set of the

Using the Event Monitoring Group Box

This Event Monitoring group box displays the Low Supplies (Ribbon, Laminate and Film).

• **The default setting is checked.** If checked, the Ribbon Low message box is displayed with every print job when Printer reports low Ribbon to the Driver.

Selecting the Calibrate Laminator tab

The Calibrate Laminator tab is active when the Laminator is automatically detected or when the Laminator is manually checked (as a Printer Feature on the Configuration tab). If the Laminator is not detected and not manually checked, the tab is active; however, all functions are grayed out.

- **Calibrate button:** Sends calibrate Laminator command to Printer. Follow the instruction on the page for setting up the Printer.
- Help button: Launches help specific to this tab.

Step	Procedure	
1	Select the Calibrate Laminator tab.	
	a. Ensure that the Cartridges are out of the Laminator.	
	b. Ensure the Laminator Cover is closed.	
	c. Click on the Calibrate button. (Note: The Printer's LCD will display	
	CALIBRATE PASSED.	
	d. Click on the OK button on the LCD display to complete the procedure.	

DTC4500 Card Printer		
Configuration Calibrate Laminator Calibrate Ribbon Clean Printer Advanced Settings		
Lamination Sensor Calibration		
 Ensure that the cartridges are out of the Laminator. Ensure the Laminator cover is closed. Click on the Calibrate button. 		
The Printer's LCD will display CALIBRATE PASSED. Click on the OK button on the LCD display to complete the procedure.		
Please note that the laminator will only complete the calibration sequence when it has reached operating temperature, see the user guide for further details.		
Calibrate		

Selecting the Calibrate Ribbon tab

The two buttons for the Calibrate Ribbon tab are described below.

• **Calibrate button:** Sends the Calibrate Ribbon Command to Printer. Follow the instructions below to set up the Printer.

Step	Procedure	
1	Select the Calibrate Ribbon tab.	
	a. Ensure that the Ribbon is removed from the Ribbon Drawer.	
	b. Ensure the Printer's Ribbon Drawer is closed.	
	c. Ensure the Printer's Cover is closed.	
	d. Click on the Calibrate button. (Note: The Printer's LCD will display CALIBRATE PASSED.)	
	e. Click on the OK button (on the driver window) to complete the procedure.	



Selecting the Clean Printer tab

The button for the Clean Printer tab is described below.

- **Clean Button:** Launches cleaning routine. Follow the instruction on the page for setting up the Printer.
- Help button: Launches help that is specific to this tab.
- Also see <u>Cleaning the Printer</u> for full instructions.

Selecting the Clean Printer tab



Use the **Advanced Settings** tab for adjusting the internal Printer settings, which are customized for every Printer at the factory and saved directly within the Printer's memory. (**Note:** You can select the Restore Defaults to restore the internal default settings.)

Selecting the Advanced Settings tab

These change values for Firmware settings. See below.

- Setting Column: Displays label for setting
- Default Column: Displays default value for setting
- Current Column: Displays current value for setting
 - Change the value by clicking on the value to activate spin control or type.
- Apply Button: Applies changed values.
- Restore Defaults Button: Restores default values.

DTC4500 Card Printer			
Configuration Calibrate Laminator Calibrate F	Ribbon Clean Printer	Advanced Settings	
Setting	Default	Current	<u> </u>
Image Darkness	0	-3	
Mag Top of Form	0	0	
Sleep Delay	120	120	
Print Top of Form	0	15	
Print End of Form	0	10	
Print Left of Form	0	13	
Cleaning Rate	3000	3000	
Ribbon Calibrate Green	0	151	
Ribbon Green LED Level	0	1	
Ribbon Calibrate Blue	0	124	
Dibbon Plus LED Louis	l.	l	⊻
Apply Restore Defaults			
Enable Mag Verify			
ОК	Cancel	Н	elp

Example:

Setting	Default	Current
Image Darkness	0	-14

Setting	Option
Image Darkness	Use this option to set the overall darkness of the printed image by increasing or decreasing the amount of heat (used by the Printhead when printing).
	Caution: If the value is set too high, the Ribbon may jam or even break.
Mag Top of Form	Use this option to shift the starting point where the Printer begins to encode the magnetic track data on the card's Magnetic Stripe.
	Caution: If the negative value is set too high, the Printer may start encoding before the Magnetic Stripe reaches the encoding head.
	 Maximum adjustment range is +/- 80.
	Each increment equals .01".
Sleep Delay	The Sleep Time setting adjusts the number of minutes of inactivity before the Printer enters a low power sleep state.

Selecting	the	Advanced	Settings tab
-----------	-----	----------	--------------

Setting	Option
Print Top of Form	Use this option to adjust the length-wise or horizontal position of the printed image on the card (so it appears to be centered).
	Caution: If the negative value is set too high, the Print Ribbon may break.
Print End of Form	Use this option to reduce or increase the overall printable area; this is done in order to optimize edge to edge printing toward the trailing edge of the card.
	 Maximum adjustment range is +/- 127.
	Each increment equals .01".
Print Left of Form	Use this option to adjust the vertical position of the printed image on the card; so it appears centered.
	 Maximum Adjustment Range is +/- 127.
	Each increment equals .01".
Cleaning Rate	Use this option to adjust the number of cards printed before the Printer displays a message indicating cleaning is needed.
	The default value is 3000 cards.

Setting	Option
Ribbon Calibrate Green	This is a calibration driven value and should not be adjusted.
	(Note: This is factory set and should not be changed unless directed by a technician.)
Ribbon Green LED Level	This is a calibration driven value and should not be adjusted.
	(Note: This is factory set and should not be changed unless directed by a technician.)
Ribbon Calibrate Blue	This is a calibration driven value and should not be adjusted.
	(Note: This is factory set and should not be changed unless directed by a technician.)
Ribbon Blue LED Level	This is a calibration driven value and should not be adjusted.
	(Note: This is factory set and should not be changed unless directed by a technician.)
Ribbon Print Tension	Use the Ribbon Tension option to increase or decreases the amount of tension (drag) on the Ribbon during printing.
Flipper Home Offset	This is a calibration driven value and should not be adjusted. If the Flipper unit is replaced and has not been calibrated, this value may need to be adjusted.
	(Note: This is factory set and should not be changed unless directed by a technician.)

Setting	Option
Flipper Lam Height Offset	This is a calibration driven value and should not be adjusted. If the Flipper unit is replaced and has not been calibrated, this value may need to be adjusted.
	(Note: This is factory set and should not be changed unless directed by a technician.)
Mag HI-Co Voltage Offset	This option changes the voltage going the magnetic head. (Note: This is factory set and should not be changed unless directed by a technician.)
Mag Lo-Co Voltage Offset	This option changes the voltage going the magnetic head. (Note: This is factory set and should not be changed unless directed by a technician.)
OLED Contrast (display contrast)	Use this option to increase or decrease the contrast of the printer OLED (if applicable).
Resin Heat Adjust	Use this adjustment for Black resin text and barcodes if they appear faded or too light/dark.
	 Maximum Adjustment Range is +/- 100.
	(Note: This control can be helpful for fine-tuning the transfer of resin text and bar codes.)
Head Resistance	This is factory set. If the main board or the Printhead is replaced then adjust this number.
	Locate the Printhead Setting Number on the bottom of the Printhead.
	The number reads R=XXXX.

Setting	Option
Head Home Offset	This is a calibration driven value and should not be adjusted. If the Printhead assembly is replaced then this value may need to be adjusted.
	(Note: This is factory set and should not be changed unless directed by a technician.)
Head Contact Offset	This is a calibration driven value and should not be adjusted. If the Printhead assembly is replaced then this value may need to be adjusted.
	(Note: This is factory set and should not be changed unless directed by a technician.)
Erase Heat Offset	Adjust the Erase temperature for the rewriteable cards as needed.
	 Increase the Current Setting to cause more heat to be used in the erasing process.
	OR
	• Decrease the Current Setting to cause less heat to be used in the erasing process.
	(Note: Erase Heat Offset provides user ability to control the Printhead heat level when the Erase Operation is performed)

Setting	Option
Write Heat Offset	Adjust the Write temperature for the rewriteable cards as needed.
	 Increase the Current Setting to cause more heat to be used in the printing process of a rewritable card.
	OR
	• Decrease the Current Setting to cause less heat to be used in the printing process of a rewritable card.
	(Note: Write Heat Offset provides user ability to control the Printhead heat level when the Write Operation is performed. Appropriate heat levels should be applied for the proper writing process.)
Enable Swift ID over USB connection	Enable Swift ID over a USB connection - Check this item to utilize Swift ID via a USB connection. When this box is checked the Ethernet connection on the printer will not be operational.
	• If the USB selection is not be accessible, the HID EEM driver that Swift ID uses to connect via a USB connection has not been installed.
	• This driver can be found on the installation CD or it can be downloaded from the HID Global support page.
	• The easiest method for enabling Swift ID is to un- install the printer driver and its components and go through the installation procedure.
	Select the desired connection type for the Swift ID application: USB or Ethernet.

Using the Device Options tab

Click on the Device Option tab to bring up the window (shown below).



Using the Device Options tab

DTC4500 Card Printer Printing Preferences	? 🔀		
Magnetic Enge ding Leavingtion Output y / Print Area K Card Device Options Image Color	Reanel Resin Printer Info		
Supplies	rint job.		
Ribbon Type: YMCKO - Full Color/Resin Black/Overlay	 Use the Ribbon Type option to select Print Ribbons. 		
Dual Sided	 Use this option to automatically print on the card's front and back sides. 		
 Print Both Sides Split 1 Set of Ribbon Panels Print Back Image on Front of Card Print Back Side Only 	 Select this option to automatically print full-color on the card's front and resin black on the card's back (using either full-color YMCKO or YMCKOK Print Ribbons). 		
Options Rotate Front 180 Degrees Rotate Back 180 Degrees Disable Printing	 Select this option to: Print the first page of a two-page file on the card's backside. OR Print the resin black on the Smartcard's chip-side. (Note: The 2nd page of the file will be printed on the card's frontside.) 		
Invert F-panel Image Write Only	 Use this option to print only onto the card's backside. 		
OK Cancel Apply Help			

Using the Device Options tab

		💩 DTC4500 Card Printer Printing Preferences 🛛 🔗	
		Magnetic Engening Leavingtian Quarty / Print Area K Panel Resin Printer Info	
You can use this optio re-writable cards. Sele Write Only option.		Card Device Options Image Color Image Calibrate Supplies Automatically detect the installed Ribbon for every print job.	
 The default setup is Printer to first erase th previously-printed card write the new informat card. 	ne 1; then	Ribbon Type: NONE - Re-Writable	
 If you are printing to card, select NONE - R to speed up the proce full card is erased and There is no option to s specific areas to erase 	e-Writable ss. The printed. select	Dual Sided Print Both Sides Split 1 Set of Ribbon Panels Print Back Image on Front of Card Print Back Side Only	
 To print/erase a cert section, use the Overl Area tab in the Driver. the specific area in the manner as the print jo Color Ribbon. To erase many cards 	ay/Print Select e same b with the	Options Rotate Front 180 Degrees Rotate Back 180 Degrees Disable Printing Write Only	
Fargo Workbench R Card Eraser option. T does not print. It will o erase.	This option	Caution: No Ribbon is used with these cards. Do not load a	
		Ribbon into the Printer when using this process. Printing on the Re-Writable card with a Ribbon will ruin the card.	

Using the Image Color tab

Click on the Image Color option tab to bring up the window (shown below).

💩 DTC4500 Card Printer Printin	ng Preferences 🔹 💽 🔀
Magnetic Encoding Lamination Ov Card Device Options	day / Drint Acco. K. Danel Resin Printer Info Image Color Image Calibrate
Image Quality Color Matching: System Color Management None System Color Management Resin Dither: Optimized for Graphics Optimized for Graphics Optimized for Photos	
Select the appropriate dither method according to the type of image to be printed. This option affects objects printed with a resin-only Print Select Optimized for Graphics when printing drawings and graphics (e.g., clipart, logos, etc.) with resin. OR Select Optimized for Photos when printing photo quality images with resin.	Use the Color Matching dropdown menu to choose the color matching options which best fits the print job requirements. Select None for print speed versus print color or for use of third party color matching software. OR Select System Color Management for Windows to make color corrections. This provides a closer match to the RGB color specifications.

Using the Image Color tab

DTC4500 Card Printer Printing Preferences Magnetic Encoding Lamination Ox by A Plint A ref KP el Resin Printer Info Card Device Options Image Color Image Calibrate Image Quality Color Matching: System Color Management Image Color System Color Management Image Color Image Color Optimized for Graphics Image Color Image Color	Control the overall darkness and lightness of the printed image by adjusting the Dye-Sub Intensity slider. • Move the slide to the left to cause less heat to be used in the printing process and to generate a lighter print. OR • Move the slide to the right to cause more heat to be used, thus generating a darker print. This slide only affects images printed with dye-sublimation Ribbon panels (YMC).
Heat Dye-Sub Intensity: (YMC) 0 % Resin Heat, Front: (K) 0 % Resin Heat, Back: 0 % Overlay Heat (D): 0 % Overlay Heat (D): 0 % Default 0 % Advanced Setti Use this option to control the amount of heat the Printer uses when printing with the Overlay Ribbon Panel. • Move the slide to the left to cause less heat to be used while printing. OR • Move the slide to the right to cause more heat to be used.	Use this option to control the amount of heat the Printer uses when printing with the resin black panel(s) of a full-color Ribbon or when printing with a resin-only Ribbon by adjusting the Resin Heat slide. • Move the slide to the left to (a) cause less heat to be used in the printing process and (b) cause resin images to be lighter or less saturated. OR • Move the slide to the right to (a) cause more heat to be used or (b) cause the resin image to be darker or more saturated.

Using the Image Color tab

	Advanced Image Color	K
You can use this option to control the image quality. The Sharpness, Contrast and Gamma settings are controlled here. The color balance for yellow, magenta and cyan are adjusted with these settings.	Image Quality Sharpness:	
to cause less of the particular option to be used in the printing process. OR Move the slide to the right to cause more of the particular option to be used.	Balance Yellow Balance: Magenta Balance:	
	Cyan Balance: O % O % O % O % O % O %	

Changing the Color Profile Selection for the DTC4500

Step	Procedure
1	 a. From your computer's startup menu, select Settings > Printers and Faxes (Windows XP) or Settings > Printers (Windows 2000).
	b. Double click on the DTC4500 Card Printer under the Printers window.
	 Select Properties under the Printer drop-down menu. (Note: This will bring up the DTC4500 Card Printer Properties window.
	d. Select the Color Management Tab
	e. The Default color profile is DTC4500CLR.
	💩 DTC4500 Card Printer Properties 🛛 ? 🔀
	General Sharing Ports Advanced
	Color Management Security Device Settings
	These settings let you associate color profile(s) with your color printer. Color profiles control the color on your printer based on the type of media being used and the printer configuration.
	 Automatic: Windows will automatically select the best color profile from the list of associated color profiles [Recommended]
	 Manual: Manually select the default color profile for all output from this device from the list of associated color profiles Default color profile: DTC4500CLR
	Color Profiles currently associated with this printer:
	DTC4500CLR_L
	Add Remove Set As Default
	OK Cancel Apply

Changing the Color Profile Selection for the DTC4500

Step	Procedure					
3	Click Manual.					
	Sector DTC4500 Card Printer Properties					
	General Sharing Ports Advanced Color Management Security Device Settings					
	These settings let you associate color profile(s) with your color printer. Color profiles control the color on your printer based on the type of media being used and the printer configuration.					
	Automatic: Windows will automatically select the best color profile from the list of associated color profiles [Recommended]					
	 Manual: Manually select the default color profile for all output from this device from the list of associated color profiles Default color profile: DTC4500CLR 					
	Color Profiles currently associated with this printer:					
	DTC4500CLR_L					
	Add Remove Set As Default					
	OK Cancel Apply					
4	Default Color Profile					
	Select the DTC4500CLR for a Color Profile that attempts to match the DTC550 card printer from FARGO.					
	OR					
	Optional Color Profile					
	Select the DTC4500 CLR_L for a Color Profile that attempts to match the Persona C30(e) and FARGO DTC400(e) card printers					
5	Click Set as Default.					

Using the Image Calibrate tab

Use the Image Calibrate tab to control the position of the printable area in relation to the card.



Using the Magnetic Encoding Tab

Select the **Magnetic Encoding** tab to display options for controlling the Magnetic Stripe encoding process. You should use these options only if the Printer has an optional Magnetic Stripe Encoding Module installed.

💩 DTC4500 Card Printer Printing Preferences 🛛 🔹 💽	
Card Device Options Image Color Image Calibrate Magnetic Encoding Lamination Overlay / Print Area K Panel Resin Printer Info	
Encoding Options Encoding Mode Custom Encoding Coercivity High(2,750 Oe) Magnetic Track Options Track 1 Track 2 Track 3	Please see the related tables and procedured below for more details on how to use the Magnetic Encoding tab window.
Encoding Mode LRC Generation Custom Encoding Even Parity Character Size Character Parity 7 Bits Odd Parity ASCII Offset Reverse Bit Order SPACE Add Leading Zeros Bit Density 210	Use the Default button to reset defaults for the current Track tab only.
OK Cancel Apply Help	

Using the Magnetic Encoding Tab – ISO Standards

You can change the encoding mode and coercivity setting or modify the ISO standards for Tracks 1, 2 and 3. This can be done by correctly modifying these Magnetic Encoding options.

Window TAB	Procedure	Procedure (continued)
Encoding Mode Custom Encoding ISO Encoding Custom Encoding Raw Binary Encoding JIS II Encoding	If you select ISO Encoding , you send down a formatted set of characters.	This selection activates the track tabs. However, all functions on the Track tabs are inactive or gray and display ISO defaults, which are the defaults listed for each track below. The Shift Data Left check box remains unchecked and inactive.
Encoding Mode ISO Encoding ISO Encoding Custom Encoding Raw Binary Encoding JIS II Encoding	If you select Custom Encoding , all options are active.	The Default is ISO Encoding. (Note: The defaults are the same as the ISO Encoding defaults.) All functions on the Magnetic Track Options tabs are active.
Encoding Mode ISO Encoding ISO Encoding Custom Encoding Raw Binary Encoding JIS II Encoding	If you select Raw Binary Encoding , you send down a raw binary string rather than a formatted set of characters.	The Coercivity dropdown function is active and the Shift Data Left checkbox is not active. All functions on the Magnetic Track Options tabs are inactive except for Bit Density .

Using the Magnetic Encoding Tab – ISO Standards

Window TAB	Procedure	Procedure (continued)
Encoding Mode ISO Encoding Ustom Encoding Raw Binary Encoding JIS II Encoding	If you select JIS II Encoding , specific standards are used.	This selection disables all the Magnetic Track Options tabs. It also disables the Coercivity dropdown function and Shift Data Left checkbox option. The default Coercivity is 600 Oe.
Coercivity High(2,750 0e) Super(4,000 0e) High(2,750 0e) Medium(600 0e) Low (300 0e)	Select the Coercivity option (Oersted) that matches the card type.	 Super Coercivity =4000 Oersted High Coercivity = 2750 Oersted Medium Coercivity=600 Oersted Low Coercivity = 300 Oersted
Shift Data Left	Select this option to shift the recorded magnetic data to the left-hand side of the card's Magnetic Stripe.	This is useful in situations that require cards to be readable with insert type readers.
-Magnetic Track Options Track 1 Track 2 Track 3	Select the Magnetic Track Selection option to specify which track is to be configured through the Magnetic Track Options.	This applies if the application being used <u>requires</u> customization of the standard ISO encoding process.

Using the Magnetic Encoding Tab – Custom Encoding or Raw Binary Encoding Mode

You can change the Magnetic Track options for Tracks 1, 2 and 3 when using the Custom Encoding or Raw Binary Encoding Mode. These options are not available for ISO or JIS II encoding.

Window TAB	Procedure	Procedure (continued)
Character Size 7 Bits 4 Bits 5 Bits 7 Bits 8 Bits	Select 4 Bits to change the bits per character to 4 BPC. (Note: This is the default for Track 3). Select 5 Bits to change the bits per character to 5 BPC. (Note: This is the default for Tracks 2 and 3).	Select 7 Bits to change the bits per character to 7 BPC. (Note: This is the default for Track 1). Select 8 Bits to change the bits per character to 8 BPC.
ASCII Offset SPACE NULL SPACE ZERO	Select NULL to change the ASCII Offset to NULL. Select SPACE to change the ASCII Offset to SPACE. (Note: This is the default for Track 1.)	Select ZERO to change the ASCII Offset to ZERO. (Note: This is the default for Tracks 2 and 3.)
Bit Density 210 BPI 75 BPI 128 BPI 210 BPI Custom BPI	Select 75 BPI to change the bits per inch to 75 BPI. (Note: This is the default for Track 2.) Select 128 BPI to change the bits per inch to 128 BPI.	Select 210 BPI to change the bits per inch to 210 BPI. (Note: This is the default for Tracks 1 and 3.) Select Custom BPI , which enables the custom BPI text box. (Note: The lower limit is 75 and upper limit is 210.)

Using the Magnetic Encoding Tab – Custom Encoding or Raw Binary Encoding Mode

You can change the Magnetic Track options for Tracks 1, 2 and 3 when using the Custom Encoding or Raw Binary Encoding Mode. These options are not available for ISO or JIS II encoding.

Window TAB	Procedure	Procedure (continued)
LRC Generation Even Parity No LRC Even Parity Odd Parity	Select No LRC to change the LRC Generation to none. Select Even Parity to change the LRC Generation to Even Parity. (Note: This is the default for all tracks.)	Select Odd Parity to change the LRC Generation to Odd Parity.
Character Parity Odd Parity No Parity Even Parity Odd Parity	Select No Parity to change the Character Parity to none. Select Even Parity to change the Character Parity to Even Parity.	Select Odd Parity to change the Character Parity to Odd Parity. (Note: This is the default for all tracks.)
 Reverse Bit Order Add Leading Zeros 	Reverse Bit Order is used to reverse the character bits.	Add Leading Zeros is used to add a set number of leading zeros to the magnetic string in order to move the starting point of the encoded data.

Reviewing the ISO Track Locations

The magnetic Encoding Module encodes onto tracks in accordance with an ISO 7811-2 Magnetic Stripe. For track locations, review the display below.



Reviewing the Sample String

- Track 1: ~1%JULIEANDERSON^1234567890?
- Track 2: ~2;1234567890987654321?
- Track 3: ~3;1234567890987654321?

Track	Start Sentinel	End Sentinel	Field Separator	Valid Characters	Maximum Number of Characters
Track 1	%	?	^	ASCII 32-95 (See the table below.)	78
Track 2	- ,	?	=	ASCII 48-63 (See the table below.)	39
Track 3	,	?	=	ASCII 48-63 (See the table below.)	106

Sending the Track Information

Magnetic track data is sent in the form of text strings from the application software to the Printer Driver.

- In order for the Printer Driver to differentiate between Magnetic Track data and the rest of the printable objects, specific characters must be added to the magnetic data to be encoded.
- These specify the data that is to be encoded, the tracks to encode and mark the start and stop of the data string. In some cases, these specific characters are automatically added to the string of track data by ID software applications.
- In most cases, the user must carefully add these characters to the string of Magnetic Track data. If these characters are not added to the track data, the text intended for the Magnetic Track will appear as printed text on the card. To avoid this, track information must be entered as described below.

Step	Procedure		
1	When entering track data, the \sim (tilde) character is entered first, followed by the track number (1, 2 or 3) on which the data should encode. This is followed by the data to be encoded.		
	• The first character of this data string must be the track's specific Start Sentinel (SS) and the last character must be the specific End Sentinel (ES).		
	• The characters or data in between the SS and ES can include all of the valid characters specific to each track.		
	• The number of these characters, however, is limited by each track's maximum character capacity.		
	• When segmenting track data, the appropriate Field Separator (FS) must be used. The table below shows the SS, ES, FS and the valid characters defined for each track.		

Reviewing the ASCII Code and Character Table

ASCII Code	Character	ASCII Code	Character	ASCII Code	Character
32	space	56	8	80	Р
33	!	57	9	81	Q
34		58	:	82	R
35	#	59	,	83	S
36	\$	60	<	84	Т
37	%	61	=	85	U
38	and	62	>	86	V
39	1	63	?	87	W
40	(64	@	88	Х
41)	65	А	89	Υ
42	*	66	В	90	Z
43	+	67	С	91	[
44	1	68	D	92	١
45	-	69	E	93]
46		70	F	94	^
47	/	71	G	95	_

Reviewing the	ASCII Code and	Character Table
----------------------	----------------	-----------------

ASCII Code	Character	ASCII Code	Character	ASCII Code	Character
48	0	72	Н		
49	1	73	I		
50	2	74	J		
51	3	75	К		
52	4	76	L		
53	5	77	М		
54	6	78	N		
55	7	79	0		

Using the Lamination tab

Refer to **Section 5: Lamination Module** for more information.

	DTC4500 Card Printer Printing Preferences	? 🔀	
	Image Calibrate K Panel Resin Printer Info		
	- Lamination Position +H A H -H -H -H Direction Card Travels through Printer	Horizontal:	
Adjust the Transfer Dw Time to control the Lamination Dwell Time through-put speed of a card in seconds per inc and with the Lamination	or Transfer <u>D</u> well Time 2.0 seconds per in	Use the Lamination Position control to adjust the horizontal position of the PolyGuard Overlaminate. • To adjust the Lamination position, click on the Horizontal adjustment	
Temperature. • Default = 2.0 second per inch • Upper Limit = 5.5 seconds per inch • Lower Limit = 0.8	S Laminate Front Side Lamination Type Cartridge 1 Cartridge 2	arrows. • To move the overlaminate more toward the card output side of the Printer, enter a positive number.	
seconds per inch	Clear Film Lamination	 To move the overlaminate more toward the card input side of the Printer, enter a negative number. 	
	Transfer Iemperature 130.0 Celsius Image: Comparison of the sector of the se	The adjustment arrows point in the direction the patch will move on the card. The maximum value for the Horizontal adjustment is ±100 Pixels (10 Pixels = about .03/.8mm). The default is 0.	
	OK Cancel	дрый шей	

Using the Lamination tab

💩 DTC4500 Card Printer Printing Preferences 🛛 🔹 💽	
Card Device Options Image Color Image Calibrate Magnetic Encoding Lamination Dverlay / Print Area K Panel Resin Printer Info Lamination Position +H I -H Horizontal:	Move the slide to the left to reduce the Transfer Dwell Time or to the right to increase the Dwell Time for your Lamination Speed.
Clear Film Lamination Hord Alternation <phord alternation<="" p=""> Hord Alternation Hord Altern</phord>	 Select the Lamination Type options based on the current Lamination media. Film Lamination and PolyGuard Lamination are the two overlaminates. Select Clear Film Lamination if the Thermal Transfer Film Overlaminate type is installed in the Lamination Module. Select 0.6 PolyGuard Lamination or 1.0 PolyGuard Lamination for either patch thickness. Select the option based on the PolyGuard material thickness. Select Registered Film Lamination for a registered thermal transfer film. PolyGuard Alternating Patch and Holographic Film Lamination are options.
Automatically detect installed Laminate for every print job. Default OK Cancel Apply	Click on Default to return Transfer Dwell Time and Transfer Temperature to the Default settings for the Lamination Type (used).
Using the Overlay / Print Area tab

This option is helpful if, for example, you would like to omit the printing or block out the overlay for a signature or printing around a card's smart chip or magnetic stripe. Refer to <u>Using the Defined Area Option</u> for a specific procedure that relates to this tab.



Using the Overlay / Print Area tab



Using the Overlay / Print Area tab



Using the K Panel Resin tab

Use this tab to control where the resin black (K) Panel of a full-color Ribbon is printed. Refer to **Using the Defined Area Option** for a specific procedure that relates to this tab.



Using the K Panel Resin tab



Using the K Panel Resin tab



Using the Printer Info tab

Use the options on this tab to view information about the Ribbon, Laminate, Card Count, Printer Serial #, Firmware version, and Reorder Media #'s installed in the Printer.

💩 DTC4500 Card Printer Printing Preferences 🛛 🔹 💽	
Card Device Options Image Color Image Culture Magnetic Encoding Lamination Overlay / Print Area K Panel Resi Printer Info Ribbon Type: YMCFKOK - Secure Fluorescing Ribbon	Here are guidelines for automatic positioning on the Printer Info tab.
Reorder #: 45212 Lot #: Unknown Empty Full	Ribbon Level: Type, Reorder Number, and Gauge Indicator.
Laminate - Cartridge 1 Type: None Reorder #: Unknown Empty Full	Lamination - Cartridge 1 Level: Type, Reorder Number and Gauge Indicator. Visible only when this cartridge is detected.
Laminate - Cartridge 2 Type: 0.6 PolyGuard Lamination Reorder #: 82600	Lamination - Cartridge 2 Level: Type, Reorder Number, and Gauge Indicator. Visible only
Empty Full Printer	when this cartridge is detected.
Card Count: 3067 Serial #: 00000002 Version: 0.0.6.13	Printer - Card Count, Serial Number, and ∨ersion Number are provided here.
OK Cancel Apply Help	

Section 5: Card Lamination Module.

The DTC4500 supports the attachment of an optional Card Lamination Module. This Module can be ordered pre-installed on the Printer from the factory or can be ordered separately as a field upgradeable Module.

Once attached, the Card Lamination Module allows you to apply Fargo certified overlaminates for more secure, tamper-resistant cards. This section explains all aspects of the Card Lamination Module's operation.

- See <u>Selecting the Calibrate Laminator tab</u> for more information on this tab.
- See Using the Lamination tab for more information on this tab.

IMPORTANT! Fargo Card Printers require highly specialized Lamination Material to function properly. To maximize Printer life, reliability, printed card quality and durability, you must use only Fargo Certified Supplies. For this reason, your Fargo warranty is void, where not prohibited by law, if you use non-Fargo Certified Supplies. To order additional materials, please contact your authorized reseller.

Danger: The Printer's Transfer Roller can reach temperatures exceeding 350° F (175° C). Use extreme caution when operating the Laminator. Never touch the Transfer Roller unless the Printer has been turned off for at least 20 to 30 minutes.

Reviewing the Card Lamination Module



Choosing a Proper Location

Follow these guidelines:

- Place the unit in a location with adequate air circulation to prevent internal heat build-up.
- Use the Printer's dimensions (18.9" H x 18.7" W x 9.2" D) as a guideline for the minimum clearances to the unit. (**Note:** Allow for adequate clearance in front of the unit to accommodate the height of the unit with its Covers open.)
- Do not install the unit near heat sources, such as, radiators or air ducts.
- Do not install the unit in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

Preventing Moisture Condensation

If the unit is brought directly from a cold to a warm location or if the unit is placed in a very damp room, moisture may condense inside the unit. (**Note:** If this condition occurs, print quality may not be at its optimum level.)

Follow this guideline:

• Leave the unit turned OFF in a warm, dry room for several hours before using it. (**Note:** This will allow the moisture to evaporate.)

Step	Procedure
1	Open the lamination door
2	Remove #1 overlaminate cartridge

Step	Procedure
3	Load lamination rolls into the cartridge until hearing a click.
4	Tighten the lamination roll.
5	Insert the overlaminate cartridge until hearing a click.

Step	Procedure
6	Remove #2 overlaminate cartridge
7	Load lamination rolls into the cartridge until hearing click.
8	Tighten the lamination roll.

Step	Procedure
9	Insert the overlaminate cartridge until hearing a click.
10	Close the lamination door.

Adjusting the Lamination Placement on the Card

The Card Lamination Module provides an adjustable Lamination Placement knob that allows you to finetune where the lamination is being placed on the card.

Step	Procedure
1	• The Lamination Placement Adjustment Knob is the light gray knob to the right of the Lamination Cartridges.
	• The printer will have one or two film cartridges loaded (depending on whether this is a Single or Dual-Side Lamination Module).
	Contraction of the second seco
2	Print a test card to see if the Lamination placement needs to be adjusted.
	Turn the knob to the right to move the patch toward the front edge of the Lamination Module. Turn the knob to the left to move the patch toward the back edge of the lamination module.

Section 6: Selecting the Fluorescent Panel Ribbon Type

The YMCFKO/YMCFKOK Ribbon is an economical way to add a fully customizable, incremental level of security to your photo identification cards.

- **Process:** This process allows you to configure the data that is printed with the fluorescent panel of an YMCFKO/YMCFKOK Ribbon. (**Note:** Any software program may be used to print the special fluorescent panel of the Ribbon to a card once the Driver and Workbench are set up correctly.)
- **Ribbons:** These Ribbons contain a yellow (Y), magenta (M), cyan (C), and resin black (K) panels to create a full color over-the-edge printing identification card. In addition, the Ribbon contains a dye-based fluorescing panel (F) which will allow you to print a standard or one-to-one personalized fluorescing image that is completely invisible until exposed to ultraviolet light.

Creating a Custom Fluorescent Image (using the YMCFKO Ribbon)

There are three (3) methods used to accomplish the creation of a custom fluorescent image when using the YMCFKO Ribbon.

- First Method: The first method uses the Fargo Workbench Printer Utility to create a static image that will be applied automatically to each card sent to the Printer. Refer to the Help file for the Fargo Workbench Utility Program and User Guide or to Appendix A for <u>Configuring Fluorescent Data</u> (F-Panel for YMCFKO Ribbon) using the Workbench.
- Second Method: The second method (described below) allows the creation of the fluorescent panel image directly from the badge application software. (Note: You can now print a unique fluorescent image, such as the card holder's picture on each card.).
- **Third Method:** The third method is described in the **Asure ID Software User Guide**. See the procedure relating to the Fluorescent Panel Ribbon. For more information about Asure ID, please visit our website at http://www.hidglobal.com/cardIssuance/idSoftware.php

Creating a Custom Fluorescent Image (using the YMCFKO Ribbon)



This process creates a fluorescent image on your card using a simple text string command in your badge application.

Step	Procedure
1	Creating Fluorescent Text: Create a new text box in your badge application.
2	Type the TEXT that you want to appear as fluorescent and put a \sim T before the start of the text with no space after the \sim T . The text will start on the card where the \sim T begins.
	~Ic:\globe.bmp Valid until MAY 2006
	Christian Sander Technical Advisor
	SCO6893B ~TSC06893B

Step	Procedure
3	Creating a Fluorescent Image: In a separate drawing program, create the image that you wish to fluoresce.
	Valid until Walid until MAY 2006 Christian Sander Technical Advisor
	States a b c c c c c c c c c c c c c c c c c c

Step	Procedure
4	Create the IMAGE in the actual size that you want it to appear on the card, and save it as a Grayscale or 1 - bit bmp file on the root c:\ directory.
	 Do not put spaces in the file name.
5	Create a new text box in your badge application, and type ~I followed by the address of your image (see Display A below). The top left of your image will start at the top left of your text box.
6	Set up the Printer Driver preferences. Refer to Step 8-9 below.
7	Printer will print the fluorescent BMP IMAGE at the ~I position on the card. Printer will print the fluorescent TEXT at the ~T position on the card.
	BMP Image located at c:\globe.bmp
8	Set the Ribbon for YMCFKO in the Printing Preferences. (Note: The Automatically detect the installed Ribbon for every print job button may also be used.)
9	Check Invert F-Panel Image to create a negative of the fluorescent image. See below.
	• This refers to the ability to cause light or white areas of the image to fluoresce and dark colors to remain dark on the printed card when exposed to a UV light.
	• This was requested because the fluorescent dye color is bright when black light is applied to it.
	By default, the dark areas of the image will fluoresce on the card and the lighter or white areas will have no dye applied. (Note: This may improve the look of the person's image if used for the Logo.)

🌢 DTC4500 Card Printer Printing Preferences 🛛 🔹 💽
Magnetic En eding Lamination Onort y / Print Area K Panel Resin Printer Info Card Device Options Image Color Image Calibrate
Supplies
Ribbon Type:
YMCFKO - Secure Fluorescing Ribbon
Dual Sided
Print Both Sides
Split 1 Set of Ribbon Panels Frint Back Image on Front of Card
Print Back Side Only
Options
Rotate Front 180 Degrees
Rotate Back 180 Degrees
🗖 Disable Printing
Invert F-panel Image
🗖 Write Only
OK Cancel Apply Help

Section 7: System Overview- Troubleshooting

Reviewing the DTC4500 Sequence of Operations

Knowing the sequence of the Printer operation will help troubleshoot the printer.

Step	Process
1	The File information is received from PC.
2	Printer checks the installed Ribbon type stored in memory against the Ribbon type command that was sent from the Printer. If Ribbon type does not match, the Pause button on the right will begin flashing.
3	The Print Stepper Motor engages.
4	The Card Feed Sensor detects leading edge of card, the Headlift Stepper then engages to disengage the input lever.
5	The card feeds through for the alignment pass.
6	The Card Feed Stepper Motor engages to queue card for magnetic encoding (if applicable).
7	The Encoding data is written to the card (if applicable).
8	The Magnetic Encoder verifies while the Stepper reverses the card (if applicable).
9	The Print Ribbon Drive engages (if not already at the yellow Panel).
10	The Print Ribbon Sensor looks for the Yellow Panel. (Note: The Print Ribbon Encoder detects number of revolutions, required to use an entire color Panel.)
11	The Print Stepper Motor engages.

Reviewing the DTC4500 Sequence of Operations

Step	Process
12	The Card Feed Sensor detects the leading edge of card.
13	The Print Stepper Motor queues card to the middle of the platen Roller. All Stop.
14	The Print Headlift Motor engages to the print position.
15	The Print Cover Sensor checks for closed state.
16	The Print Stepper Motor engages.
17	The Ribbon Drive Motor engages.
18	The Image data is burned by the Printhead until the image data is depleted. All Stop.
19	The Thermistor engages the Printhead Cooling Fan to maintain proper operating temperature.
20	The Headlift Motor engages to the queue position.
21	The Print Stepper Motor engages.
22	The Print Ribbon Drive engages.
23	After Ribbon advances a few Encoder clicks, assume the Ribbon is free of card. All stop.
24	Repeat Steps 9 through 22 for the appropriate number of color/overlay Panels.
25	Either the Card is ejected from the singled-sided Printer or the Card Feed Stepper engages to queue the card for the Flipper Table for the dual-sided Printer.
26	All Stop.

Section 8: Troubleshooting Printer Error Button and Display Message Table

Step	Procedure		
1	All Printers have two (2) buttons, one for ON/Off (LEFT) and one for Pause (II) (RIGHT) .		
2	The ON/Off button is blue when the Printer is ON . When the Printer enters the Sleep Mode, the button LED is dimmed but still ON .		
3	The Pause (II) button will be illuminated blue when the Printer is capable of accepting a print job and is not in an error state.		
	 This button LED will continue to stay on while the Printer prints as long as there is no error. 		
	• This button LED will also be dimmed when the Printer goes into sleep mode.		
4	When an error occurs, the Pause button will no longer be illuminated blue, but will blink red.		
5	Press the ON/Off button when Printer is in an error state to cause the action to be cancelled. (Note: If no other error occurs, then the Pause button will illuminate its blue LED.)		
6	Press the Pause button when Printer is in an error state to cause the Printer to retry. (Note: It will illuminate its blue LED and retry the failed action.)		
7	When downloading an upgrade file, both blue LED's will blink.		
8	If a language (other then English) is currently selected:		
	 You can press and hold the Pause button during the power-up sequence to change the language back to English. 		

Using the Error Message Table

This section provides the troubleshooting table for the error message. The DTC4500 has a display that will show the Printer error messages.

- When an error occurs in the Printer, the PC will show the error message on screen with solutions.
- The display will blink in the location needing attention. Those locations include the Printer, Input Hopper, Magnetic Encoder, Flipper, Card Path, Ribbon, and Data/Communication error device.

Each table uses a 3- column presentation to present a specific or Printer error message, its cause and its solution.

- This allows the troubleshooter to identify the error and its cause, and then perform the procedure provided in the solution column.
- This standard mode of identifying the problem and its solution should provide an efficient method of troubleshooting this Printer.
- If you encounter problems beyond the capabilities of these the error message table, you should contact Technical Support. Refer to: <u>Section 11: HID Global Technical Support</u>

Using the Error Message Table

Error Message	Cause	Solution
# 81 The Printer is unable to feed a card from the	Check the following, then press the Pause button to continue.	
Unable to Feed	Card Hopper.	 Verify the Cleaning roller is properly installed on the Ribbon Drawer.
		 Check for card slippage. If necessary, run the Printer cleaning routine.
		 Verify that your cards are within the accepted card size range.
		 Verify the cards are not sticking together.



Error Message	Cause	Solution
# 2 Head Move Error	This is a problem with the Printhead Lift.	Re-start the Printer and try again.If this problem persists, call for technical assistance.
# 8 Head Sensor Error	The Printhead Temperature Sensor is not functioning or is not connected properly. OR The Printhead is not cooling properly.	Re-start the Printer and try again.If the problem persists, call for technical assistance.
# 9 Reboot Required	Unspecified system error detected by the Printer Firmware.	Re-start the Printer and try again.If this problem persists, call for technical assistance.
# 25 Ribbon not Installed	A Ribbon is not installed in the Printer.	Install a Ribbon and retry.
# 30 Mag Verify Error	Magnetic encoding verification failure.	 Verify correct orientation of card. Try encoding with a different card. Verify cards have the Magnetic Stripe. Replace the Magnetic Encoding Module.

Error Message	Cause	Solution
# 31 No Mag Module	You are trying to send encoding data, but the Printer is not configured with this Encoder type.	 Ensure that no encoding data is being sent with the print job and reprint the card. Install a Magnetic Encoding Module.
# 38 # 39 # 40 EEPROM Corrupt EEPROM Read Error	EEPROM restored with factory default values.	 If changes were made in the Advanced Setting Tab in the Printer Driver, click the Default button to reset these numbers. Re-start the Printer and try again. If this problem persists, call for technical assistance.
# 44 Flipper Jam/ Home Error	A card has become jammed in the Printer's Flipper Table. The Flipper failed to position properly while aligning a card or flipping a card.	 Clear any cards in the Flipper Table using the buttons to move the card out. Resume printing. Re-start the Printer and retry. If problem persists call for technical assistance.

Error Message	Cause	Solution
# 45 No Flip Module installed	Request to print on 2 nd side of card, but no Flipper is installed.	Install a Flipper module.
# 48 Check Lam Power	Lam is connected but not powered.	Power off the Printer, power the Laminator, and then power on the Printer.
		A damaged Flipper board, E- Card board, or EEPROM could potentially result in this same error.
# 52	Laminator firmware error	Reset power and try again.
Lam Generic Error		If this problem persists call for technical assistance.
# 53 Lam Card Jam	A jam occurred somewhere between the Printer and the Laminator	Open covers and clear the obstruction/jam
# 63 Lam Tag Error	There is no material loaded in the Laminator	Load material into the Laminator

Troubleshooting w	vith the Error	Message Table
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Error Message	Cause	Solution
# 64 # 65 # 66 Reboot Required	Unspecified system error detected by the Printer Firmware.	Re-start the Printer and try again.If this problem persists, call for technical assistance.
# 68 Card in Printer	A card is jammed in the Print Station or card flipping area of the Printer.	Clear the jam and press the Pause button.
# 70 Multiple Feed	Multiple cards were fed into the Printer.	Verify the card thickness is set to the thickness of your cards, then press the Pause button.
		Check for card slippage. If necessary, run the Printer cleaning routine
		 Verify the Cleaning roller is properly installed on the Ribbon Drawer.
		 Verify the cards are not sticking together.

Error Message	Cause	Solution
# 81 Unable to Feed	The Printer is unable to feed a card from the Card Hopper.	Check the following, then press the Pause button to continue.
		 Verify the Cleaning roller is properly installed on the Ribbon Drawer.
		Check for card slippage. If necessary, run the Printer cleaning routine.
		• Verify that your cards are within the perimeters accepted card size range.
		Verify the cards are not sticking together.
# 82 Mag Jam	A card is jammed Magnetic station	Clear any cards in the Magnetic Module.
		• Press the Pause button to continue.
# 91	The Print Ribbon has run out.	Install a new Ribbon.
Ribbon Out		 Press the Pause button to continue or the ON/OFF button to cancel.

Error Message	Cause	Solution
# 93 Wrong Ribbon	The Print Ribbon installed in the Printer does not match the Ribbon type selected in the Printer Driver.	Change either the installed Print Ribbon or the Ribbon type selected in the Printer Driver.
		 Press the Pause button to continue or the ON/OFF button to cancel.
# 97 Ribbon Search Error	The Ribbon is not able to find the next panel correctly. Check for jams/breaks.	 Recalibrate the Ribbon Sensor. If broken, repair by taping the Ribbon back on to the take- up core. Replace the Ribbon. Press the Pause button to continue or the ON/OFF button to cancel.
# 99 Ribbon Error	The Print Ribbon has either broken or jammed.	 If jammed, clear the jam. If broken, repair by taping the Ribbon back on to the take- up core. Press the Pause button to continue or the ON/OFF button to cancel.

Error Message	Cause	Solution
# 100 Ribbon RFID Error	There is no Ribbon or the Ribbon tag information is corrupted or incorrect.	 Verify the Printer Driver settings for correct Ribbon. Try a new Ribbon and continue. Press the ON/OFF button to cancel.
# 102 # 103 # 104 #3 Headlift Error	This is a problem with the Printhead Lift.	Re-start the Printer and try again.If this problem persists, call for technical assistance.
# 106 Job Data Error	The print data sent to the Printer is corrupt or has been interrupted.	Check the interface cable. Select the ON/OFF button to cancel this print job and then resend the job.
# 107 Printing Error	An error was detected during printing.	Re-start the Printer and try again.If this problem persists, call for technical assistance.

Error Message	Cause	Solution
# 109 # 113 Ribbon Release Error	The Printer cannot locate the next Ribbon panel in order to release the Ribbon from the card.	 Ensure that the Ribbon is not stuck to the card. Replace the Ribbon. Recalibrate the Ribbon sensor. If the Ribbon is broken, repair by taping the Ribbon back onto the take- up core and manually advance to the next panel. Press the Pause button to
# 110 Card Jam/Align error	A card is jammed in the Print Station or card flipping area of the Printer.	continue. Clear the jam. Press the Pause button to continue.
# 111 Head Loading	An unrecoverable error has occurred during printing.	Re-start the Printer and try again. If this problem persists, call for technical assistance.
# 112 Card Jam/Align error	A card is jammed in the Print Station or card flipping area of the Printer.	Clear the jam. Press the Pause button to continue.

Error Message	Cause	Solution
# 128 Calibrate Ribbon	The Print Ribbon Sensor is out of calibration.	Calibrate the Ribbon Sensor.
# 131 Flipper Jam/ Home Error	A card has become jammed in the Printer's Flipper Table. The Flipper failed to position properly while aligning a card or flipping a card.	 Clear any cards in the Flipper Table, using the buttons to move the card out. Resume printing. Re-start the Printer and retry. If problem persists call for technical assistance.
# 136 Secure Guard Print Disabled	Printing is disabled by SecureGuard until a password is received.	Re-start the Printer and retry.If the problem persists, call for technical assistance.
# 139 Please Remove Ribbon	Ribbon needs to be removed.	Re-start the Printer and retry.If problem persists, call for technical assistance.

Error Message	Cause	Solution
# 144 EEPROM Corrupt EEPROM Read Error	EEPROM restored with factory default values.	• If changes were made in the Advanced Setting Tab in the Printer Driver, click the Default button to reset these numbers.
		 Re-start the Printer and try again. If this problem persists, call for technical assistance.
# 170 Ribbon Calibration failed	Ribbon calibration failed.	Check for material blocking sensor and try again.
#202 Encoder not installed	You are trying to send encoding data, but the Printer is not configured with this Encoder type. iCLASS,Prox,Mifare,SmartCard	 Ensure that no encoding data is being sent with the print job and reprint the card. Install an Encoding Module.
No UV Protection	Ribbon type selected does not contain an overlay or overlaminate	The current printer driver setup does not have any protective coating being applied to the front or back of the card. Select YES to continue or NO to alter the settings.

Error Message	Cause	Solution
# 53 Lam Card Jam	A jam occurred somewhere between the Printer and the Laminator	Open covers and clear the obstruction/jam
# 52 Lam Generic Error	Laminator firmware error	Reset power and try again. If this problem persists call for technical assistance.
# 48 Check Lam Power	Lam is connected but not powered.	Power off the Printer, power the Laminator, and then power on the Printer. A damaged Flipper board, E- Card board, or EEPROM could potentially result in this same error.
#282 Lam Heater Off	See the next column.	If this problem persists, call for technical assistance.
#59 Lam Heater Timeout	See the next column.	If this problem persists, call for technical assistance.
Troubleshooting with the Error Message Table

Error Message	Cause	Solution
#57 Wrong Lam Type	See the next column.	Install a new film roll and press RESUME to continue or CANCEL to abort. If the problem persists, call for technical assistance.
#58 Check Lam Material	See the next column.	Install a new Lamination roll and press RESUME to continue or CANCEL to abort. If the problem persists, call for technical assistance.
#208 #209 No Lam	There is no Laminate installed or it is broken.	Check the Lamination and try again
#211 Wrong Lam Type	An incorrect Laminator film has been installed, or a driver setting is incorrect.	Install a new film roll and press RESUME to continue or CANCEL to abort. If the problem persists, call for technical assistance.
#210 Remove Lam	Driver is set for single side lamination but there are 2 rolls of laminate in the printer.	Remove the roll not used and try again.

Error Message	Cause	Solution
#53 Lam Jam	A card is jammed in the Lamination module area of the Printer.	Clear the jam according to the steps in the Troubleshooting section of the User Guide. Press QUIT to clear this message.
#60 Lam Sensor	The Lam Sensor is out of calibration.	Calibrate the Lam Sensor.
# 63 Lam Cart 1 Out Error Lam Cart 2 Out Error	There is no material loaded in the Laminator Cartridges 1 or 2.	Load material into the Laminator.

Troubleshooting with the Error Message Table

Printer Specific Tools (DTC4500)



The status icons are as follows:



This icon indicates that the Print Ribbon supply is low and will need to be replaced soon.



This icon indicates that the Laminate in the Top Laminator is low and will need to be replaced

soon.



This icon indicates that the Laminate in the Bottom laminator is low and will need to be replaced



This icon indicates that the Printer needs to be cleaned. Refer to <u>Section 9: Cleaning</u> of the User's Manual.



This icon is only displayed for Printers with an attached Dual-Input Hopper and indicates that the Top Input Hopper is currently selected.



This icon is only displayed for Printers with an attached Dual-Input Hopper and indicates that the Bottom Input Hopper is currently selected.

Printer Specific Tools (DTC4500)



The curved arrow

will return to the first screen.

Additional Printer Specific Tools

Label	Description
INFO	Printer Type
	Firmware Version
	IP Address
	Flipper
	Lamination
	Magnetics
	E-Card
	Password
	Card count
TEST	Color Photo:
PRINTS	Select this to print a color card to test communication and integrity.
	Alignment:
	Select this to print a card used to align the print image on the card.
	Settings:
	Select this to print a card with the Advanced settings.
	Resin:
	Select this to print a RESIN test card.
	Rewritable:
	Select this to ERASE the Rewritable card.
	Magnetic:
	Select this to test Magnetic encoding. (Hi-Co only)
	Lamination:
	Select this to laminate a test card.
Hopper Select	Abliity to select which hopper to feed cards from. Applies to Dual Hopper Printers.
Toolbox	Clean Printer:
	Select this to run the clean printer routine.
	Clean Laminator:
	Select this to run the clean laminator routine.
	Calibrate Mag:
	Select this to calibrate the Magnetic Sensor
L	1

	Calibrate Rib Sensor:
	Select this to calibrate the ribbon sensor.
	Network:
	Select this to configure network options.
Language	Language:
	Select this choice to change the Printer Displayed Language.
Exit	Exit:
	Select this choice to exit the Printer Tool options.

Section 9: Cleaning

The Card Printer is built to require a minimum amount of maintenance. Nevertheless, there are a few procedures you can perform on a regular basis or as needed to ensure the best possible performance

Safety Messages (review carefully)

Symbol	Critical Instructions for Safety purposes	
Danger:	Failure to follow these installation guidelines can result in death or serious injury.	
<u>\!</u> \	Information that raises potential safety issues is indicated by a warning symbol (as shown to the left).	
	• To prevent personal injury , refer to the following safety messages before performing an operation preceded by this symbol.	
	• To prevent personal injury , always remove the power cord prior to performing repair procedures, unless otherwise specified.	
	• To prevent personal injury , make sure only qualified personnel perform these procedures.	
Caution:	This device is electrostatically sensitive. It may be damaged if exposed to static electricity discharges.	
<u>/</u> 4	Information that raises potential electrostatic safety issues is indicated by a warning symbol (as shown to the left).	
	• To prevent equipment or media damage , refer to the following safety messages before performing an operation preceded by this symbol.	
	• To prevent equipment or media damage , observe all established Electrostatic Discharge (ESD) procedures while handling cables in or near the Circuit Board and Printhead Assemblies.	
	• To prevent equipment or media damage , always wear an appropriate personal grounding device (e.g., a high quality wrist strap grounded to avoid potential damage).	
	• To prevent equipment or media damage , always remove the Ribbon and Cards from the Printer before making any repairs, unless otherwise specified.	
	• To prevent equipment or media damage , take jewelry off of fingers and hands, as well as thoroughly clean hands to remove oil and debris before working on the Printer.	

DTC4500 Card Printer/Encoder Cleaning Kit

Caution: As with any electronic device, internal components of the Printer, such as the Printhead, may be damaged if exposed to static electrical discharges. To avoid potential damage, always wear an appropriate personal grounding device, such as a wrist strap (with integral resistor) connected to an ESD ground.

Supplies (included with the Cleaning Kit)

This Cleaning Kit provides you with the specialized cleaning supplies and the required cleaning procedures for you to maintain your Fargo DTC4500 Card Printer/Encoder. The following cleaning procedures will require less than ten minutes.

Description	Supplies (pictured)
Four (4) Printhead Cleaning Swabs are pre-moistened with 99.99% isopropyl alcohol for cleaning your Printer's Printhead.	
Ten (10) Gauze Pads are pre- moistened with 99.99% isopropyl alcohol for cleaning your Printer's interior and exterior.	
Ten (10) Cleaning Cards are provided with adhesive backing for cleaning your Printer's Platen and Card Feed Rollers.	

Printhead Cleaning

Step	Procedure
1	Caution:
	Turn Off the Printer and unplug the power cord from the Printer.
2	Remove the Ribbon Drawer.
3	Open the Printhead Cleaning Swabs . Break it to moisten the tip.
4	Swab the tip back and forth across the top of the Printhead. Allow to dry thoroughly before sending a print job.

Perform this procedure approximately every **1000 prints** to maintain a consistent print quality. (**Note:** The Card Feed Rollers move the card throughout the print process. Rollers should be kept clean to prevent card jams and card contamination. This cleaning process will ultimately lead to better print quality and extended Printhead life.)

Step	Procedure
1	 a. Open the Printer's Ribbon Drawer and remove the Print Ribbon. b. Remove all the cards from the Printer's Input Hopper.
2	Use the Cleaning Card from the Printer's Cleaning Kit and remove the adhesive backing from both sides of the card. If your Printer has a Magnetic Encoder installed, be sure to leave the small Liner Strip on top of the Cleaning Card in place. This small strip is needed to protect the Magnetic Head from the adhesives on the Cleaning Card .

Step	Procedure
3	Insert the Cleaning Card into the Single Feed Card Slot until the card stops.
	If your Printer is equipped with a Magnetic Encoder, you must insert the Cleaning Card with the printed side up and with the small Liner Strip towards the front of the Printer.
4	From your computer, open the Printer Driver and select Printing Preferences.

Step	Procedure
5	Click on the Toolbox button.
	Sector 2 Control Printer Printing Preferences
	Magnetic Encoding Lamination Overlay / Print Area K Panel Resin Printer Info Card Device Options Image Color Image Calibrate
	Card Size CR-80 • inches O mm
	Print Width: 2.114
	Print Length: 3.362
	Card Thickness 30 -
	Orientation A • Portrait A • Landscape
	Copies Card Hopper Selection
	Diagnostics Test Print
	ToolBox About
	OK Cancel Apply Help

Step	Procedure
6	Click on the Clean Printer button.
	DTC4500 Card Printer Calibrate Laminator Calibrate Ribbon Clean Printer Advanced Settings 1. Remove all cards from Card Hopper. 2. Remove the Bibbon Cartridge and close the cover. 3. Remove the paper backing from both sides of the Cleaning Card. *Note: D0 N0T remove small liner strip if a magnetic encoding module is installed in your printer. 4. Insert the Cleaning Card into the Card Hopper's in-feed rollers. See the diagram below. 5. Cick on the Clean button below. 6. Guide the Cleaning Card into the printer if necessary. 7. When the Cleaning routine is complete, the Cleaning Card will exit the printer. 8. Reinstall the Ribbon Cartridge. Note: The Cleaning routine will begin after all current print jobs have completed. Image: Complete Complete Complete Complete Completed. Image: Complete Complete Complete Complete. Mote: The Cleaning routine will begin after all current print jobs have completed.
	Clean
	OK Cancel Help
7	 Click on the Clean button (shown above). The Printer will pull in the Cleaning Card. The Printer will then perform an automated cleaning procedure.
	 This procedure is designed to thoroughly clean the Platen and the Card Feed Rollers inside the Printer.

Cleaning the Printer's Interior

Periodically, use a **Cleaning Pad** from the Printer's **Cleaning Kit** to remove dust and other contaminants from inside the Printer. (**Note:** Dust and other particles may accumulate inside the Printer with continued usage. This can cause spots or specks to appear on the printed cards.)

Cleaning the Printer's Exterior

Clean it only with a **Cleaning Pad** from the Printer's **Cleaning Kit**. (**Note:** The Printer has a durable casing that should retain its luster and appearance for many years.

Section 10: Firmware Upgrades

Step	Procedure
1	Requirements
	Internet Access
	Printer is powered up and connected to PC

Step	Procedure
2	Open the Fargo Workbench Printer Utility or use the Diagnostics button from the Card tab of the Printing Preference page. (Note: The Workbench is also available from the Fargo folder in the Windows Program folder.)
	 DTC4500 Card Printer Printing Preferences Wegnetic Forcefing Lamination Overlay / Print Area K Panel Resin Printer Info Card Device Options Image Color Image Calibrate Card Size CR-80 inches mm Print Width: 2.114 Print Length: 3.362 Card Thickness 30
	Orientation A Portrait A Copies Card Hopper Selection First Available Diagnostics Test Print
	ToolBox About OK Cancel Apply Help

Step	Procedure
3	From the Application Icon, select Upgrade Firmware.
	Upgrade Firmware Options Exit

Step	Procedure							
4	Find the Firmware via Check for Firmware Updates at www.hidglobal.com							
	• Save the file to a folder. (Double-Click the file to Un-Zip the file)							
	Use the Browse button to find the .frm file.							
	Select the file. Click Open .							
	Open 🛛 🕅							
	FWR v0.0.3.1.frm Pactory.frm Pactory.frm							
	File name: DTC FWR v0.0.3.1.fm Qpen							
	My Network Files of type: Firmware Files (*.frm, *.s19) Cancel							
5	Click on Upgrade to start the upgrade process.							
6	This message will appear while Firmware is updating. Loading Firmware.							
7	The Printer will reboot after this process is completed.							

Section 11: HID Global Technical Support

The purpose of this section to provide you with an efficient, step-by-step procedure to be used when contacting HID GLOBAL Technical Support as needed for this Card Printer.

Step	Procedure
1	Contact the HIDGlobal Technical Support Group by phone at (866)607-7339 Ext #6 or by fax at (952) 946-8492 for additional technical assistance.
	OR
	Contact HID Technical Support via the Web: www.hidglobal.com
2	Position a phone near the Printer and Computer so the technician can help to troubleshoot the Printer(s).
3	Please have a self-test and a sample card ready when calling HID Technical Support.

Reading the Serial Numbers on a Fargo Printer

You can determine when your card Printer was manufactured by reading directly from the serial number (affixed to your card Printer).

Example	Explanation
Reviewing Example No. 1: Serial Number A9050028 (2009)	• A9050028: The first two digits in the serial number indicate the year the Printer was built (e.g., the digits A9 indicate the year 2009).
	• A9050028: The third and fourth digits in the serial number indicate the week the Printer was built (e.g., the digits 05 indicate week 5 of that year).
	• A9050028: The last four digits indicate the sequence number for the numeric order in which the Printers were built.
Reviewing Example No. 2: Serial Number B0050028 (2010)	• B0050028: The first two digits in the serial number indicate the year the Printer was built (e.g., the digits B0 indicate the year 2010).
	• B0050028: The third and fourth digits in the serial number indicate the week the Printer was built (e.g., the digits 05 indicate week 5 of that year).
	• B0050028: The last four digits indicate the sequence number for the numeric order in which the Printers were built.

Appendix A

Using the Defined Area Option

This procedure can be used with the K Panel or the Overlay /Print Area procedure to define specific areas. The K-Panel procedure is described below: The same process is used for the Overlay/Print Area option.



Step	Procedure
1	From the Driver Printing Preferences, click on Diagnostics to bring up the Fargo Workbench Printer Utility.
2	 a. Click the Print Security applet group and select the Security Imaging applet. b. Check the Enable Secure Imaging checkbox. (Note: The option for both front and back are set up the same way.)
	Print Security Security Imaging Front Security Imaging Back Decrypt Secure ID Imaging Enable Secure Image Imaging Enable Secure Image Imaging Enable Secure Image Imaging Enable Secure Image
	Printer Access Printer Access Security Imaging Security Imaging Secure Mark Configuration Text Secure Mark Configuration Text Secure ID Secure Mark Configuration Text Secure ID Secure ID<
	Utilities Encoding Print Security

Step	Procedure						
3	a. Click on the Secb. Click and drag ac. Move and size a	box onto the Te					
	Applications 😨	Save					
	Print Security	Security Imaging Front	Security Imaging Back	Decrypt Secure ID			
	F	🕑 Enable Secure Image					
	Printer Access	Drawing Tools Secure ID Logo Text	Security Imaging Des		ough Printer		
	Utilities						
	Encoding						
	Print Security						

Step	Procedure				
4	On the Template, rig	ght click on the S	ecure ID box for Security Imaging Back	Decrypt Secure ID	
	Security Imaging	Secure ID Logo		B Font Move to Fluorescing Pan Move to Resin Panel Rotate Clockwise Rotate Counterclockwise Delete	
	Utilities Encoding		← Direction	n Card Travels Tł	nrough Printer

Step	Procedure			
5	a. Click on the Logb. Click and drag ac. Move and size (a)	box onto the Te	mplate.	ner of the box.
	Applications	Save		
	Print Security	Security Imaging Eront	Security Imaging Back	Decrypt Secure ID
	Printer Access Printer Access Security Imaging SecureMark Configuration	Enable Secure Image Drawing Tools Secure ID Logo Text	Security Imaging Des	ign Template
	Utilities Encoding Print Security			

Step	Procedure	
6	On the Template	right click on the Logo box for the options shown below.
7	Select the Logo	File.
	the image to fit th	of the Logo to place on the card. (Note: Fit to Frame will size box. Once this is set up, this logo will print from the n. This is set up in the background.)
	Applications	Save
	Print Security	Security Imaging Eront Security Imaging Back Decrypt Secure ID
	Printer Access	
	Security Imaging	Logo Logo Text Rotate Clockwise Rotate Counterclockwise Delete
	Utilities Encoding	Direction Card Travels Through Printer
	2	

Step	Procedure				
8	a. Click on the Text box on the left.b. Click and drag a box onto the Template.c. Move and size as needed.				
	Applications	Save			
	Print Security	Security Imaging Front Security Imaging Back Decrypt Secure ID			
	E	Enable Secure Image			
	Printer Access	Drawing Tools Security Imaging Design Template			
	Security Imaging	Secure ID			
	SecureMark Configuration	Text Item			
		Direction Card Travels Through Printer			
	Utilities				
	Encoding				
	Print Security				

9 On the Template, right click on the Text box for the options.	Step	Procedure				
Print Security Print Security Printer Access Security Imaging Secure ID Logo Imaging Secure ID Logo Text Item Font Rotate Clockwise Rotate Clockwise Edit Delete	9	On the Template	, right click on	the Text box	for the opt	ions.
Imaging Conc Decktry Imaging Conc Decktry Imaging Conc Decktry Imaging Conc Printer Access Imaging Conc Imaging Conc Decktry Imaging Design Template Secure Mark Configuration Imaging Conc Secure ID Imaging Design Template Secure Mark Configuration Imaging Conc Secure ID Imaging Design Template Imaging Conc Imaging Design Template Imaging Design Template Imaging Conc Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template Imaging Design Template <th></th> <th>Applications</th> <th>Save</th> <th></th> <th></th> <th></th>		Applications	Save			
Printer Access Security Imaging Security Imaging SecureMark Configuration Text SecureMark Configuration SecureMark Configuratio <th></th> <th>Print Security</th> <th>Security Imaging Front</th> <th>Security Imaging Back</th> <th>Decrypt Secure ID</th> <th></th>		Print Security	Security Imaging Front	Security Imaging Back	Decrypt Secure ID	
SecureMark Configuration		E	Enable Secure Image			
SecureMark Configuration		Printer Access	Drawing Tools	Security Imaging Des	ign Template	
← Direction Card Travels Through Printer					-	Font
Edit Delete Direction Card Travels Through Printer		Securemark Configuration	Text			
					-	Edit
Utilities				← Direction	n Card Travels	Through Printer
		Utilities				
	-	<u> </u>				

Step	Procedure						
10	Follow the same instruction as above for the back side of the card.						
10	 Follow the same instruction as above for the back side of the card. a. Save this template using the Save button b. Close the Workbench. (Note: Any Software program file printed with the YMCFKO Ribbon installed into the Printer will print this design with the F-Panel of the Ribbon. It will print the same file each time unless you recreate a new template.) 						

Step	Procedure					
12	Set the Ribbon for YMCFKO in the Printing Preferences. (Note: The Automatically detect the installed Ribbon for every print job button may also be used. The F-Panel Ribbon must be installed for this process to work.)					
13	Check Invert F-Panel Image to create a negative of the fluorescent image.					
	• This refers to the ability to cause light or white areas of the image to fluoresce and dark colors to remain dark on the printed card when exposed to a UV light.					
	• The fluorescent dye color is bright when black light is applied to it.					
	• By default, the dark areas of the image will fluoresce on the card and the lighter or white areas will have no dye applied. (Note: This may improve the look of the person's image if used for the Logo.)					

🌢 DTC450	0 Card Print	er Printing) Prefer	ences	<u>?</u> ×				
Magnetic En roding Lamination Grank y / Print Area K Panel Resin Printer Info Card Device Options Image Color Image Calibrate									
Supplies									
Automatically detect the installed Ribbon for every print job.									
Ribbon Type:									
YMCFKO - Secure Fluorescing Ribbon									
Dual Sided									
Print Both Sides									
🗖 Spli	t 1 Set of Ribbon Pan	els							
Print Back Image on Front of Card									
Print Back Side Only									
- Options									
Rotate Front 180 Degrees									
Rotate Back 180 Degrees									
Disable Printing									
Invert F-panel Image									
Write Only									
				1					
	OK	Cancel	Apply	н	lelp				