

# *Sapient Healthcare Systems*

## **DVI Lab Bridge Manual**

Manual Version 2.0.0

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WEBSWARE

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# **Section 1**

## **General Information**

## INTRODUCTION

The DVI bridge interface allows a user to electronically transmit spectacle lens orders directly from the *SAPIENT* Healthcare System to a participating DVI laboratory. This transmission of data can be accomplished in batch mode to external labs via modem or can be sent directly from the point of purchase to an in-house lab.

Regardless of how the interface is being used, its benefits are numerous. First and foremost is the speed in which an order is entered into the DVI laboratory computer system. Also, since the data is transmitted directly from computer to computer, transcription errors are eliminated. The bridge interface also has the ability to include the frame tracing as part of the individual order (if a tracer has been set up on the *SAPIENT* system).

Since both the *SAPIENT* Healthcare System and the appropriate DVI laboratory can be tailored to specific users' needs, some manipulation of the communication data may be necessary. This document will discuss the means of setting up these communication parameters and give the guidelines to allow customization between the desired lab and the *SAPIENT* computer.

## EXTERNAL LAB CODES

The bridge interface, which enables two totally different computer systems to communicate, has some standard procedures which can be customized so the base information can be tailored to each user's specific requirements.

The *SAPIENT* system has essentially two different labels for all the base frame and lens components of a spectacle order. The first label or description is used internally only to describe a particular element of an order. For example, "Single Vision" for a single vision lens. In the *SAPIENT* system, you can make this label say anything you want by modifying it in the spectacle lens design base file. This label is only used to select and display information on the system and can be made to say "Bob" if everyone knew "Bob" meant "Single Vision". The second label, referred to as an external lab code, is the name used by the lab to represent the same item. This allows you to call the item "Single Vision" in the *SAPIENT* system but "SV" when the order is sent to the lab. In general, if no external lab code is specified, the *SAPIENT* description is sent instead. In some cases, if no external code is entered, that component gets sent to the special instructions area on the lab computer.

All components of the spectacle order have default DVI lab fields where the external lab code is being sent. (See the appendix for information on what the DVI lab screen looks like as well as what the field numbers are.) These default areas will be discussed in the following section. However, the *SAPIENT* system allows several options for the user to be able to redirect an external lab code to someplace other than its default area. You can redirect any external lab code using the following command sequences in the external lab code fields. (Notes: Items in ***BOLD ITALIC*** should be typed in exactly as shown. Items in *ITALIC* should be replaced with the proper controlling values. You cannot have any spaces around the punctuation " ; : / " . )

### ***FLD#X,CODE***

Where *X* is some field number and *CODE* is a valid external lab code. This syntax will redirect the specified code to a different field number, so entering "***FLD#6,P***" will send a "P" to the lab field number 6.

### ***FLD#X1/X2,CODE***

Where *X1* and *X2* are field numbers and *CODE* is a valid external lab code. This syntax will redirect the specified code to field number *X1* if it is a component of the left eye or to field number *X2* if it is a component of the right eye. Entering "***FLD#111/113,COL***" will send the code "COL" to the lab field number 111 if it is the left eye; otherwise it will send "COL" to field 113.

### ***FLD#SRV,CODE***

Where *CODE* is a valid external lab code. This syntax will redirect the specified code to a service code area on the lab computer, so entering "***FLD#SRV,SLAB***" will send "SLAB" to the next available service field on the lab system.

### ***FLD#COT,CODE***

Where *CODE* is a valid external lab code. This syntax will redirect the specified code to the coating field on the lab computer. Entering "***FLD#COT,-ARC***" will send "ARC" to the right half of the coating field on the lab system and "***FLD#COT,ARC-***" will send "ARC" to the left half. (Note: Coating codes must include the minus "-" to direct the code to the proper side of the coating field on the DVI lab system. A code with a preceding minus (-ARC) means the lab is going to add the coating. A code with a trailing minus (ARC-) means the material comes with the coating from the factory.)

### ***CODE1:FLD#X,CODE2***

Where *X* is some valid field number and *CODE1* and *CODE2* are valid external lab codes. This syntax will allow two external lab codes to be created from one area. Entering "***TRN:FLD#6,TRN***" will send "TRN" to the default field area as well as to field number 6 on the lab system. You can use any redirecting syntax on either side of the ":", so entering "***FLD#6,TRN:FLD#SRV,TRN***" is also valid. Currently, you can only send a maximum of two codes (only one ":") from any single external lab code field.



## **ORDER FLOW**

This section covers the basic flow of a spectacle order from the *SAPIENT* system through the bridge to the DVI lab computer.

### ***ORDER ENTRY***

After a spectacle lens order has been completely entered and saved, the user has the ability to check the order with their DVI lab. (This feature is discussed further in section three under Bridge Modules) This checking should only be done on orders that are questionable, since it takes time to check and could cause a bottleneck if many locations are all checking jobs simultaneously.

### ***ORDER ACCEPTANCE/LAB SELECTION***

After the order has been accepted and an invoice is generated, a lab is automatically determined and assigned to the spectacle order based upon the various criteria of the Rx. (These criteria are discussed in detail in section two under Lab Setup / Default Lab Selection.)

### ***SENDING ORDER TO LAB***

Sending spectacle orders over the bridge to the lab is done one of two possible ways. If you have an in-house DVI lab, you can configure the *SAPIENT* system to send the job automatically, immediately after an invoice has been printed. Otherwise, the job is placed into a queue to await batch processing. These batches can then be sent at any time during the day, as many times as needed. Prior to sending a batch of orders to any lab, last minute decisions can be made to select a different lab to send the orders to.

### ***ACCEPTANCE OF DVI LAB ORDER***

The spectacle Rx is received in the DVI lab systems' order processing screen, where it is validated and any edit problems are noted and sent back through the bridge to the *SAPIENT* system along with the newly assigned lab reference number. The lab reference number and any edit problems are then stored in the *SAPIENT* system for future reference. A job status record is also maintained on the *SAPIENT* system logging the date and time the order was sent to the lab. If all components of the order have been set up properly on both sides of the bridge, the job should have no edit problems on the DVI lab system and the order should print right out at the lab.

## **Section 2**

### **Bridge Setup**

## **GENERAL INFORMATION**

This section covers the setup for any DVI bridge specific files as well as all the base item files where external lab codes need to be entered. The location in the menus of each of the appropriate programs as well as a screen diagram will be included. As a general rule, most of components of an Rx have some base file where an external lab code can be found with some default field number where the information will appear on the DVI order entry screen. These will be discussed in detail and will also be found in the appendix under Default DVI Lab Fields.

Many of the external lab codes have a hierarchy. Depending on where a code is entered, that field value can be overwritten by some other code. It is very important to keep this in mind when setting up all the external lab codes. This hierarchy will also be covered in detail for all appropriate setup screens.

# FRAME SETUP

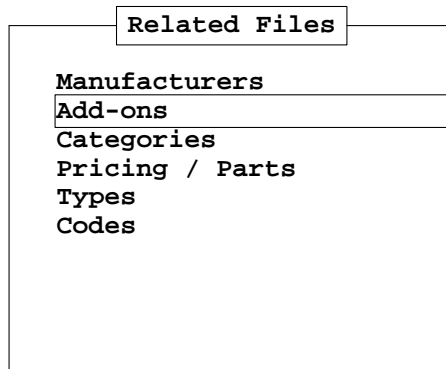
All frame setup screens are found under "Related Files" from the following menu location.

**Figure 2.1: Menu location**

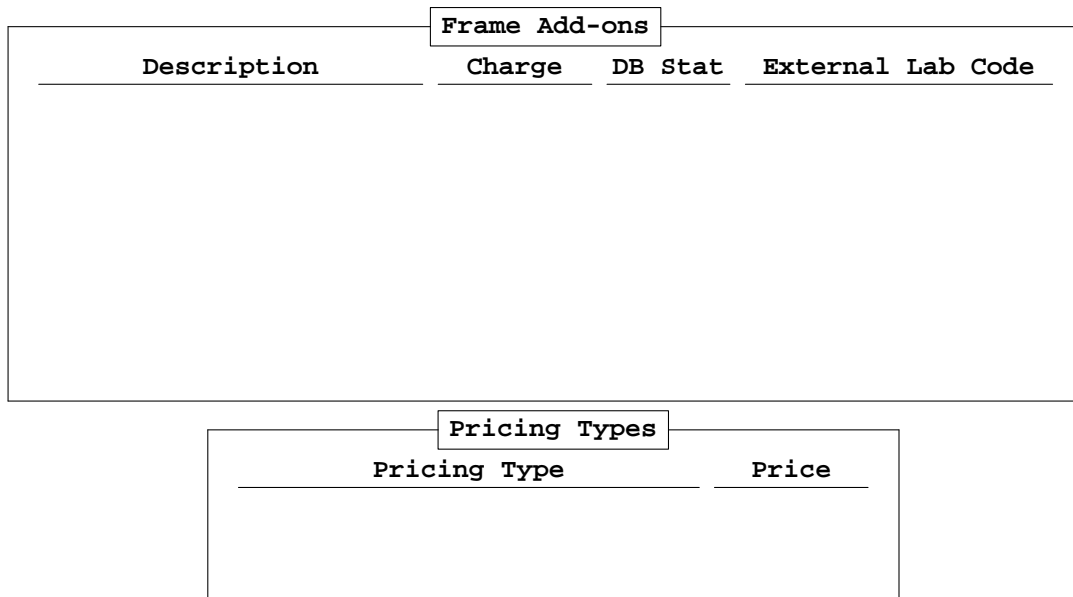


# FRAME ADD-ONS SETUP

**Figure 2.2:** Menu location



**Figure 2.3:** Screen diagram



## Frame Add-ons

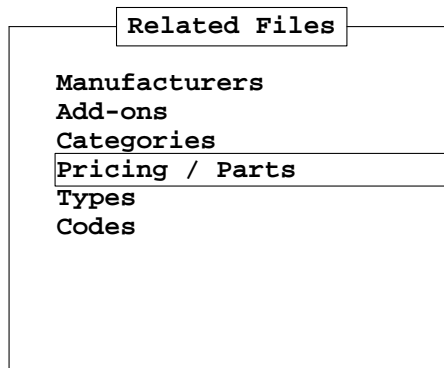
This is where the external lab codes for frame add-ons are entered. Any frame add-on that has a lab code entered here will be sent to the service code area on the DVI lab screen. All frame add-on entries that do not have an external lab code set up specifically will be sent to the special instruction (also called the service description) area of the DVI lab order entry screen.

*(See appendix A-1 for illustration of DVI lab order entry screen)*



# FRAME PRICING/PARTS SETUP

**Figure 2.4:** Menu location



**Figure 2.5:** Screen diagram

A screenshot of a screen titled "Frame Parts". It displays a table with the following columns: "Description", "Def Factor", "Temp", "DB Stat", and "External Lab Code". The table is currently empty, with only the header row visible. There is a horizontal line below the table area.

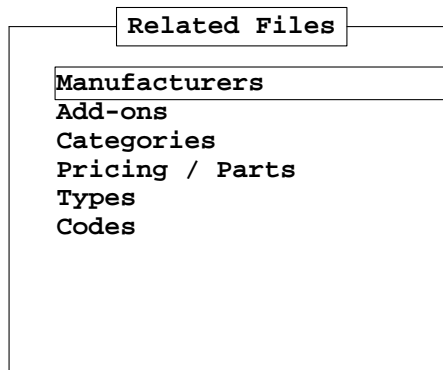
## Frame Pricing/Parts

This is where the external lab codes for frame parts are entered. All frame part entries are sent to the special instruction (also called the service description) area of the DVI lab order entry screen. If a lab code is entered, the code is sent; otherwise the description is sent. Note: You must have an "F" in the lab code field for the complete frame entry, or regular frame transmitting will not work.

*(See appendix A-1 for illustration of DVI lab order entry screen)*

# FRAME MANUFACTURER SETUP

**Figure 2.6: Menu location**



**Figure 2.7: Screen diagram**

The screenshot shows a window titled "Frame Manufacturers". At the top, there is a table with five columns: "Description", "Account Number", "Fax Number", "Shipping Method", and "Lab". The table is currently empty. Below the table, there are two input fields: "DB Status:" followed by a blank line, and "External Lab Code:" followed by a blank line.

## Frame Manufacturer

This is where the external lab codes for frame manufacturers are entered. All frame manufacturers must have an external lab code entered here, or a '?' value is sent to the manufacturer area (field number 169) on the DVI lab screen, causing an error.

*(See appendix A-1 for illustration of DVI lab order entry screen)*



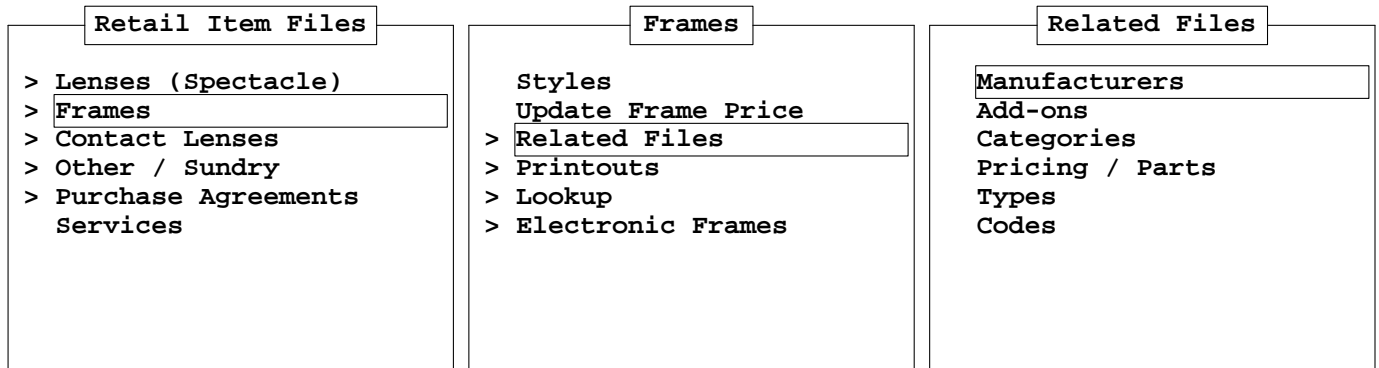
## ORDERING THE FRAME FROM THE LAB

By default, the *SAPIENT* system orders only the lenses from the appropriate DVI laboratories. All frame orders are assumed to be ordered from some other place. However, you are able to have the *SAPIENT* system order the frame as well. There are currently two different criteria which can be configured to modify the frame order default.

### Frame Manufacturer

By changing the "Lab" field value to "Yes" for a particular manufacturer, all frame orders generated from the *SAPIENT* system for that manufacturer will be ordered from the DVI laboratory.

**Figure 2.8:** Item Files Menu location



**Figure 2.9:** Screen diagram

Frame Manufacturers				
Description	Account Number	Fax Number	Shipping Method	Lab

DB Status: \_\_\_\_\_ External Lab Code: \_\_\_\_\_

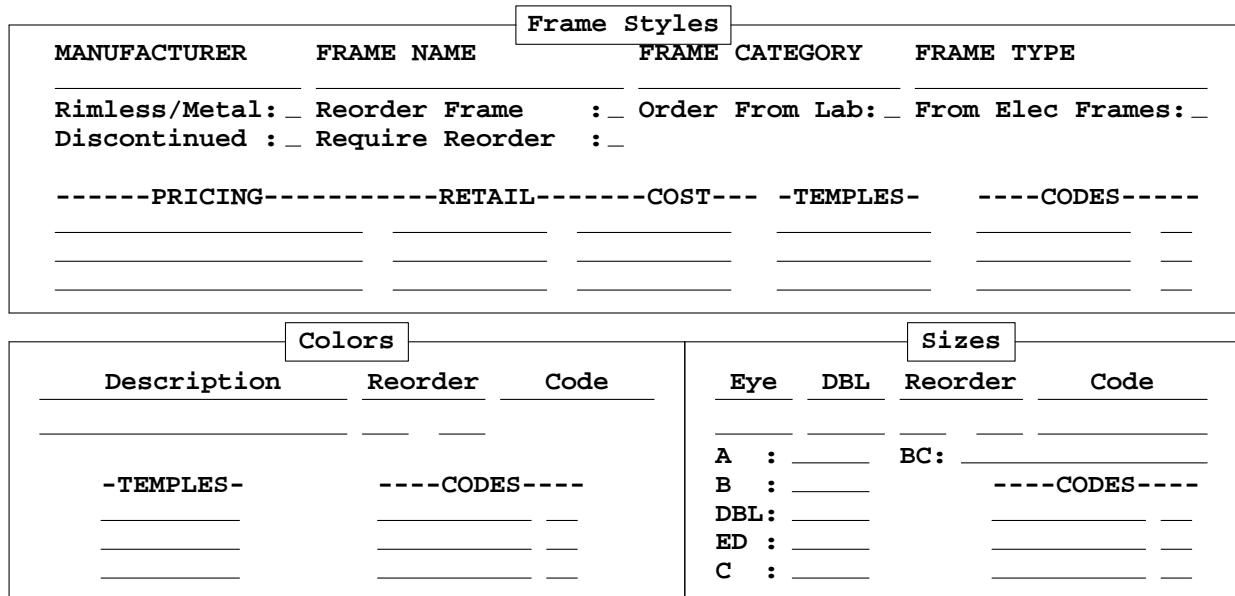
## Frame Style

By changing the "Order From Lab" field value to "Yes" for a particular frame style, all frame orders generated from the *SAPIENT* system for that frame style will be ordered from the DVI laboratory.

**Figure 2.10: Menu location**



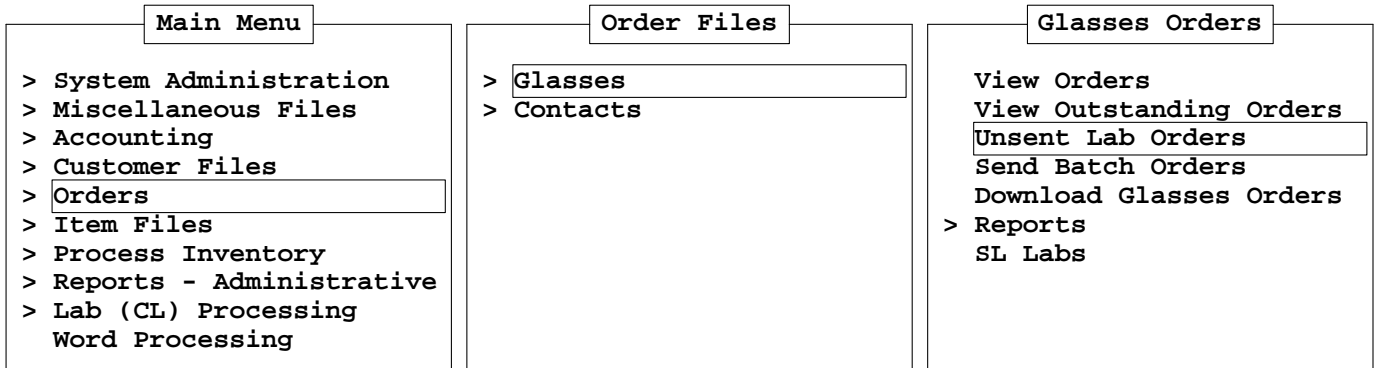
**Figure 2.11: Screen diagram**



## Unsent Lab Orders

If you are using the system in batch transmission mode, you have the final say on whether you want a frame ordered from the lab on an individual order basis. Any "order frame from lab" status can be modified from its determined value prior to batch transmission on the **Unsent Lab Orders** screen.

**Figure 2.12:** Menu location



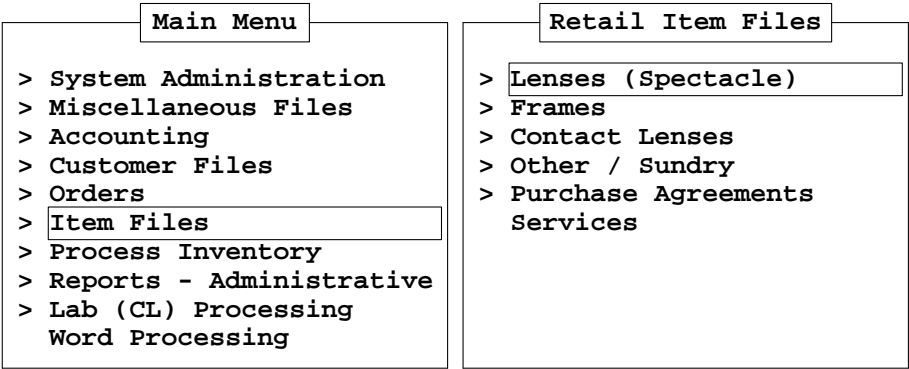
**Figure 2.13:** Screen diagram

Spectacle Lens Unsent Orders			
Order #	Lab	Ord ST	Patient Information

# SPECTACLE LENS SETUP

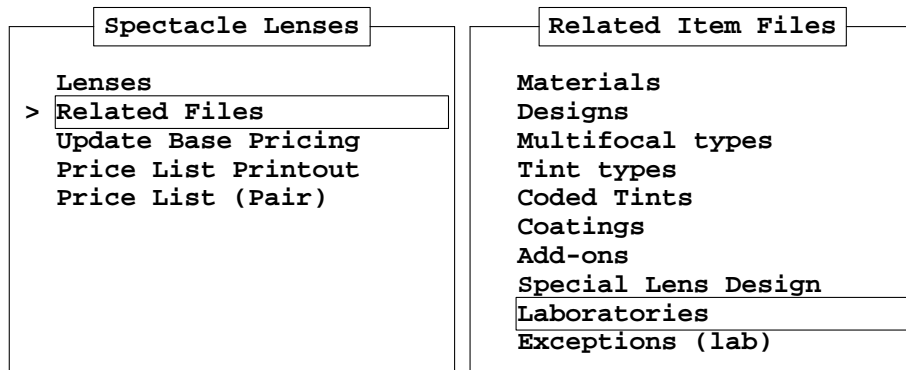
All spectacle lens setup screens are found under "Lenses (Spectacle)" from the following menu location.

**Figure 2.14:** Menu location



# SPECTACLE LENS LAB SETUP

**Figure 2.15:** Menu location



**Figure 2.16:** Screen diagram

Spectacle Lens Labs	
Name :	_____
Address :	_____
	_____
Contact :	_____
Comment :	_____
	_____
	_____
Interface:	_____
Acct# :	_____
PWD :	_____
Phone :	_____
Fax :	_____
Modem :	_____
Status:	_____
Deflt?:	___

Lab Branch Accounts		
Branch	Account Number	Password
_____	_____	_____

## Spectacle Lens Labs

This application is where all lens labs are set up in the *SAPIENT* system. As seen in figure 2.16, the lab's name, address and other information is stored here. The important fields are discussed below (All other fields are used for storing the information only):

### **Interface:**

This field tells the bridge software how to communicate to the appropriate DVI lab. If the lab is a non-DVI lab then this field should be left blank. This field is maintained by WEBSWARE and should not be modified unless told to do so. In order for the bridge system to work, some UNIX configuration must be done prior to entering the values for this field.

### **Acct#:** (Account number)

This is the actual account number assigned by the DVI lab for access to your data on the lab computer. When your business has only one location this is the account number that is used. If you have multiple locations (branches), each branch is assigned its own account number which is accessed by the **F8** key. (See the "Lab Branch Accounts" screen in figure 2.16)

### **PWD:** (Password)

If the DVI lab requires a password for security to get into their computer, this is where it is entered. This too must be assigned by the DVI lab. When your business has only one location this is the password that is used. If you have multiple locations (branches), each branch is assigned its own password which is accessed by the **F8** key. (See the "Lab Branch Accounts" screen in figure 2.16)

### **Deflt?:** (Default)

Marking "Yes" in this field will cause this lab to be the primary lab for all orders. You may only select ONE lab as the default. If you have certain exceptions for orders that you want sent to different labs, they can be set up in the "Lab Exceptions Screen".

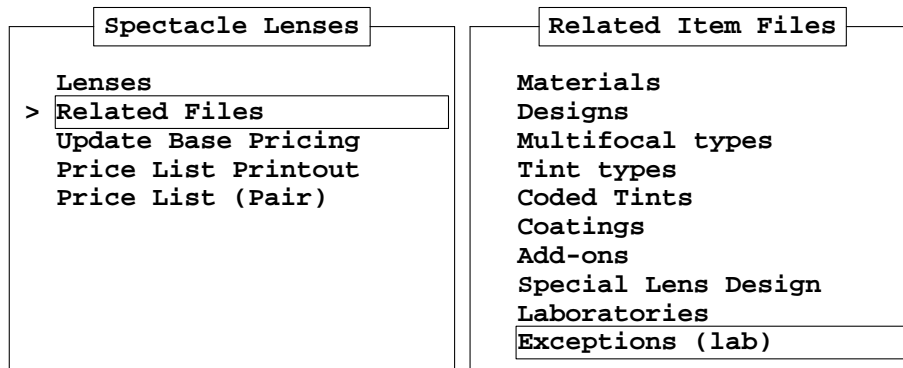
All labs must be set up prior to actual use of the bridge system.

## **Lab Branch Accounts**

This application is accessed by hitting the **F8** key from the "Spectacle Lens Labs" screen. If you have more than one location (branch), they must all have their account numbers and passwords entered here. All accounts and passwords are assigned by the DVI lab.

# LAB EXCEPTIONS SETUP

**Figure 2.17: Menu location**



**Figure 2.18: Screen diagram**

Default Lab Exceptions			
Lab Name	Third Party Plan	Pricing Type	Uncut
Design :	_____	Sphere Range :	_____
Add Type:	_____	Cylinder Range:	_____
Coating :	_____	Frame Mfg:	_____
Material:	_____		

## Default Lab Exceptions

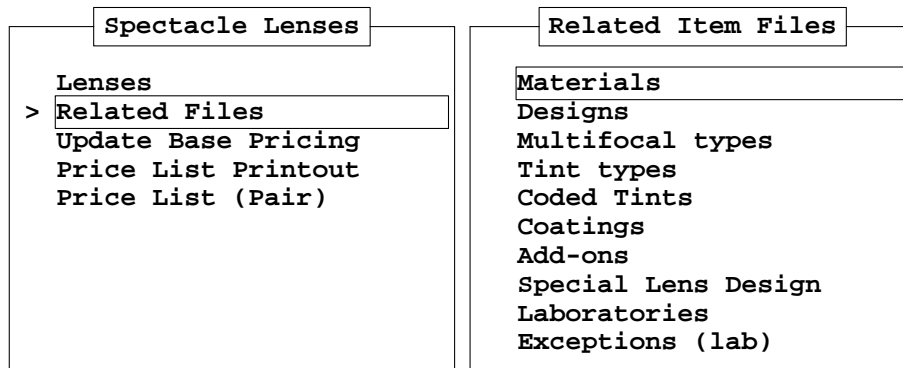
This application is where you can cause a lab other than the default to be selected based on what is actually being ordered. Blank fields are ignored, but all other field values must exist on an order for the specified lab to be selected. For example, if you send all bifocal orders with an ultraviolet coating to lab "B" instead of the default lab. You must specify "Bifocal" in the design field and "Ultraviolet" in the coating field. If an order is entered for bifocal lenses with no coating, then the default lab is used.



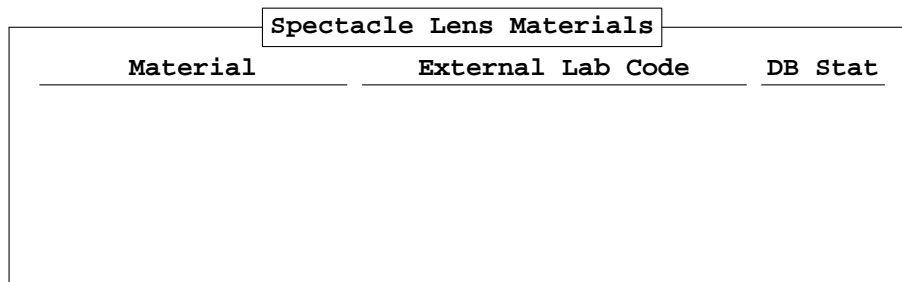
The order of the lab exceptions is also important. In general, lab exception entries with more fields filled in should be at the top. In the above example, orders that were both "Bifocals" and had "Ultraviolet" coating go to a different lab other than the default. If you also send all other "Bifocal" orders to a third lab, then that lab exception entry would have just "Bifocal" selected and should appear after the first exception entry with both "Bifocal" and "Ultraviolet" selected.

# SPECTACLE LENS MATERIAL SETUP

**Figure 2.19:** Menu location



**Figure 2.20:** Screen diagram



## Spectacle Lens Materials

This is where the external lab codes for spectacle lens materials are entered. All spectacle lens materials must have an external lab code entered here or no value is sent to the material area (field number 6) on the DVI lab order entry screen. Certain material and design combinations can also send a value to the material field. This will be discussed further in section two under *Specific Lens Setup*.

(See appendix A-1 for illustration of DVI lab order entry screen)

## Basic External Lab Codes: Lens Materials

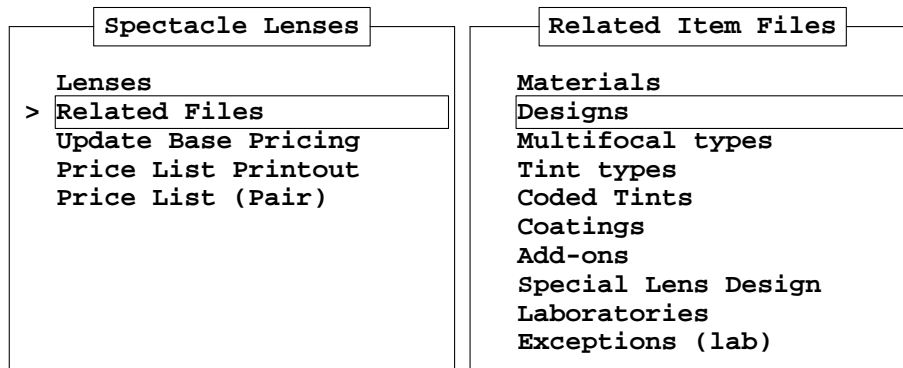
The following is a list of some of the basic external lab codes currently supported by the DVI lab order entry computer (There may be more codes available). You should discuss the various options available with your own DVI laboratory.

*(Note: The SAPIENT description can be anything, but the DVI code must match)*

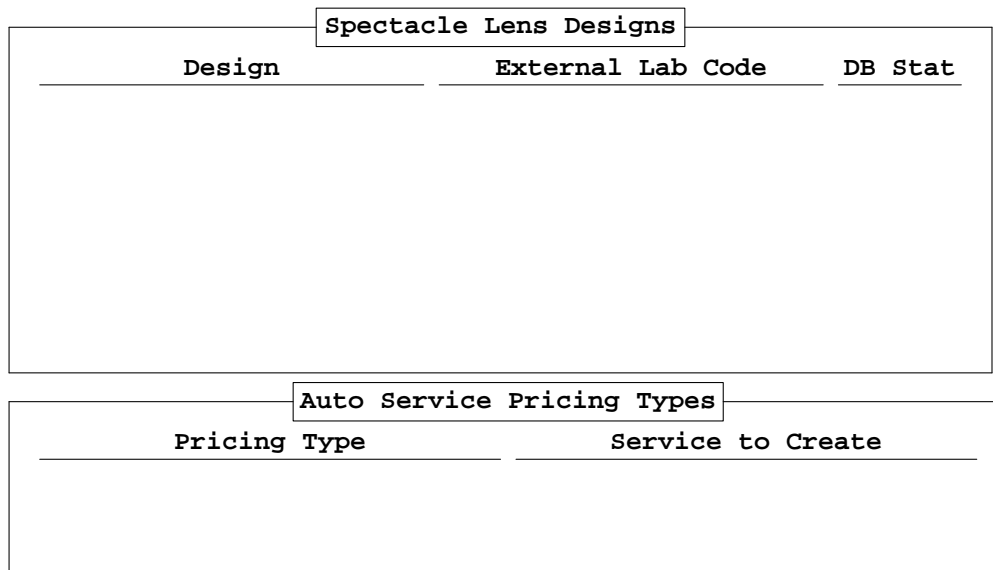
<b>SAPIENT Description</b>	<b>DVI Code</b>
Plastic	P
Plastic 1.54 Spectro	H54
Plastic 1.55	H55
Plastic 1.56	H56
Plastic 1.60	H60
Plastic 1.66	H66
Transition	TRN
Trans 54 Spectrolite	T54
Trans 55 Progressive	T55
Poly-Thin	PLY
Kodak 3000 1.56	K56
Cosmolit	H60
Polycarbonate	PLY
Glass	G
Polarized Plastic	PRY
Polarized Transition	PLT
Polarized P Hi Index	PRH
Polarized Polycarb	PLP
Polarized Glass	PRD
Seiko MX	H60

# SPECTACLE LENS DESIGN SETUP

**Figure 2.21:** Menu location



**Figure 2.22:** Screen diagram



## Spectacle Lens Designs

This is where the external lab codes for spectacle lens designs are entered. Any spectacle lens designs with an external lab code entered here will be sent to the design/add type area (field number 68 for a right lens or 87 for a left lens) on the DVI lab order entry screen. Certain material and design combinations can also send a value to the design field. This will be discussed further in Section two under *Specific Lens Setup*. If there is a multifocal(add) type as-

sociated with the order, then that external lab code will override any value entered on this screen. See section two for further information on multifocal(add) type setup.

*(See appendix A-1 for illustration of DVI lab order entry screen)*

### **Basic External Lab Codes: Lens Designs**

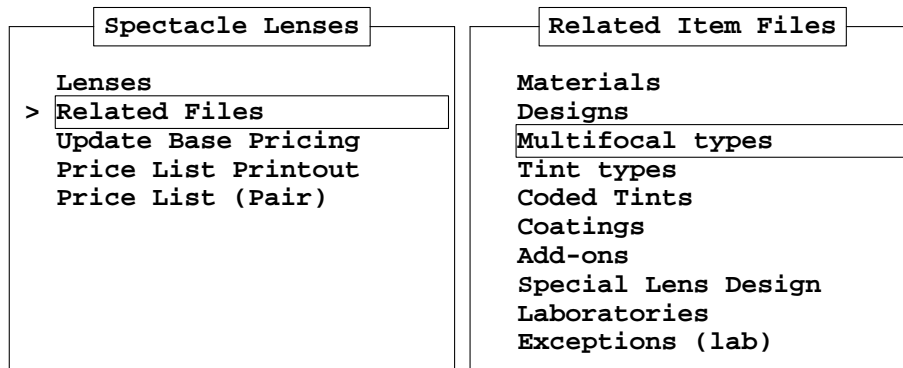
The following is a list of some of the basic external lab codes currently supported by the DVI lab order entry computer. You should discuss the various options available with your own DVI laboratory.

*(Note: The SAPIENT description can be anything, but the DVI code must match)*

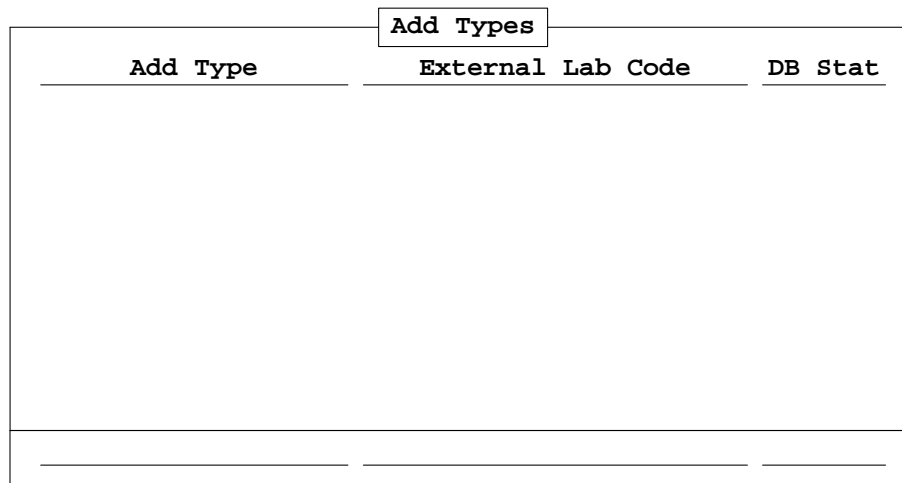
<b>SAPIENT Description</b>	<b>DVI Code</b>
Single Vision	SV

# SPECTACLE LENS MULTIFOCAL(ADD) TYPES SETUP

**Figure 2.23:** Menu location



**Figure 2.24:** Screen diagram



## Spectacle Lens Multifocal(Add) Types

This is where the external lab codes for spectacle lens multifocal types are entered. Any spectacle lens multifocal types with an external lab code entered here will be sent to the design/add type area (field number 68 for a right lens or 87 for a left lens) on the DVI lab order entry screen. Codes sent from here will replace any codes sent from the spectacle lens design area. Certain material and design combinations can also send a value to the design field, overriding any value sent from these screens. This will be discussed further in section two under *Specific Lens Setup*. See section two for further

information on specific lens multifocal(add) type setup.

*(See appendix A-1 for illustration of DVI lab order entry screen)*

## **Basic External Lab Codes: Add Types**

The following is a list of some of the basic external lab codes currently supported by the DVI lab order entry computer (There may be more codes available). You should discuss the various options available with your own DVI laboratory.

*(Note: The SAPIENT description can be anything, but the DVI code must match)*

<b>SAPIENT Description</b>	<b>DVI Code</b>
7x25	STT7X25
7x28	STT7X28
7x35	STT7X35
8x35	STT8X35
Adaptar	ADAPTAR
AO Blend	AO BLEND
CFR 22 (GLASS)	CFR22
CFR 25	CFR25
Comfort	VX COMFORT
Cosmolit CT-28	COSMOLIT CT28
Cosmolit Progressive	COSMOLIT P
CRT Trifocal 14x35	STT14X35
Curve Top-10x40	CTT10X40
Curve Top-28	CT28
Curve Top-40	CT40
Delta	VISION EASE DELTA
Double D-25	DOUBLE ST25
Double D-28	DOUBLE ST28
Double D-35	DOUBLE ST35
Double Exec	DOUBLE EXEC
Executive Bifocal	EXEC
Executive Trifocal	EXEC TRI
FT-25	ST25
FT-28	ST28
FT-35	ST35
FT-40	ST40
FT-45	ST45
Gradal HS	GRADAL-HS
Infinity	VX INFINITY
Kodak FT-28	KODAK-ST
Kodak Progressive	KODAK
Life	LIFE
Natural	NATURAL

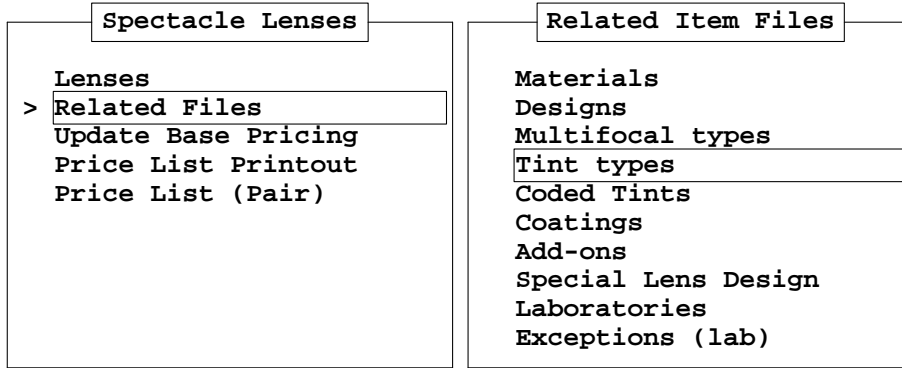
## Basic External Lab Codes: Add Types (continued)

<b>SAPIENT Description</b>	<b>DVI Code</b>
Progressive R	PROGRESSIV R
Progressive S	PROGRESSIV S
Round 22	RD22
Round 28	RD28
Round 40	RD40
Round Trifocal 38	RD38 TRI
SmartSeg	SMARTSEG
Sola XL	XL
Super No-Line	SUPER NOLINE 1
TruVision	TRU VISION
Ultex A	ULTEX
Ultex AL	ULTEX+ AL
Ultex B	ULTEX+ B
Ultravue 28	ULTRAVUE 28
Varilux Plus	VX PLUS
VIP	VIP
VIP Gold	VIP GOLD
Younger 10-30	1030



# SPECTACLE LENS TINT TYPE SETUP

**Figure 2.25:** Menu location



**Figure 2.26:** Screen diagram

Tint Types			
Description	Charge	External Lab Code	DB Stat

## Spectacle Lens Tint Types

This is where the external lab codes for spectacle lens tint types are entered. Any spectacle lens tint types with an external lab code entered here will be sent to the tint type area (field number 113 for a right lens or 134 for a left lens) on the DVI lab order entry screen. You can also enter "IN HOUSE" in the external lab code field and no tint type will be sent to the lab (to be done in-house instead). If no external lab code is entered, then the description field gets sent to the special instruction (also called the service description) area. Colored glass tints are handled differently and will be discussed further in section two under *Specific Lens Setup: Tints*. See section two for further information on coded tints setup.

(See appendix A-1 for illustration of DVI lab order entry screen)

## Basic External Lab Codes: Tint Types

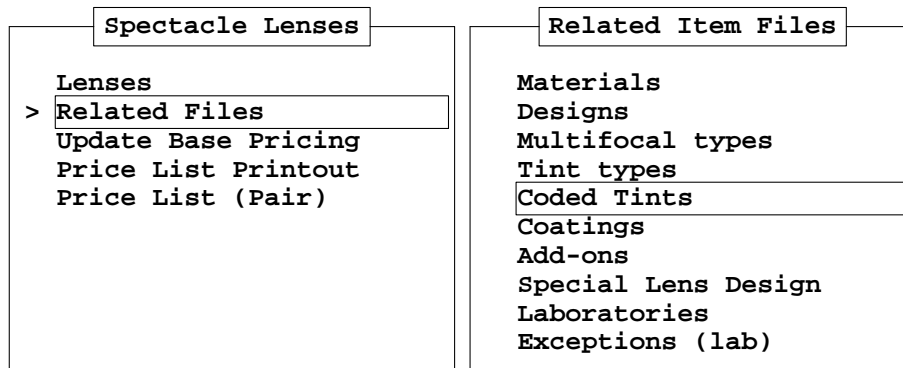
The following is a list of some of the basic external lab codes currently supported by the DVI lab order entry computer (There may be more codes available). You should discuss the various options available with your own DVI laboratory.

*(Note: The SAPIENT description can be anything, but the DVI code must match)*

<b>SAPIENT Description</b>	<b>DVI Code</b>
Double Gradient	DGD
Gradient	GRD
Solid	SD

# SPECTACLE LENS CODED TINT SETUP

**Figure 2.27:** Menu location



**Figure 2.28:** Screen diagram

Tints			
Code	Description	Tint type	Charge
External Lab Code: _____		DB Status: _____	

## Spectacle Lens Coded Tints

This is where the external lab codes for spectacle lens coded tints are entered. Any spectacle lens coded tints with an external lab code entered here will be sent to the special instruction (also called the service description) area. If no external lab code is entered the description field also gets sent to the special instruction area. You can also enter "IN HOUSE" in the external lab code field and no coded tint will be sent to the lab (to be done in-house instead). Colored glass tints are handled differently and will be discussed further in section two under *Specific Lens Setup: Tints*.

(See appendix A-1 for illustration of DVI lab order entry screen)

## Basic External Lab Codes: Coded Tints

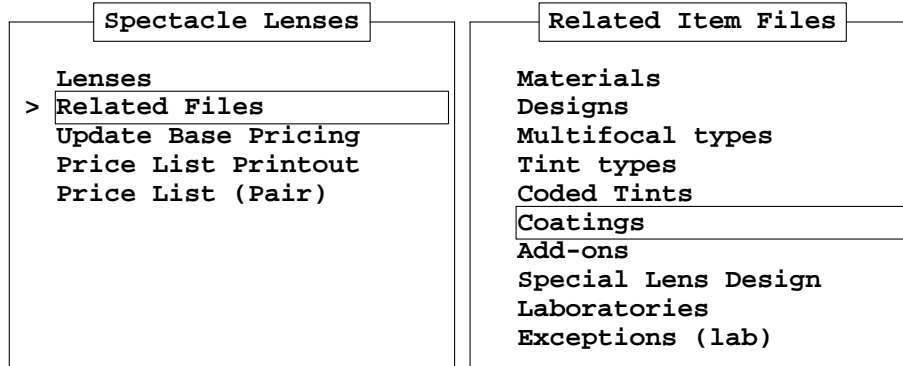
The following is a list of some of the basic external lab codes currently supported by the DVI lab order entry computer (There may be more codes available). You should discuss the various options available with your own DVI laboratory.

*(Note: The SAPIENT description can be anything, but the DVI code must match)*

<b>Tint Description</b>	<b>Tint Type</b>	<b>DVI Code</b>
Blue Blocker 530	Solid	530
Blue Blocker 540	Solid	540
Blue Blocker 550	Solid	550
Clear	Solid	CLR
G-15	Solid	G15
Green 3	Solid	GN3
Grey 1	Solid	GY1
Grey 2	Solid	GY2
Grey 3	Solid	GY3
Photobrown Extra	Photochromic	PBX
Photogrey II	Photochromic	PG2
Photogrey Extra	Photochromic	PGX
Pink 1	Solid	PK1
Pink 2	Solid	PK2
Pink 3	Solid	PK3
Photosun II	Photochromic	PS2
Thin & Dark Brown	Photochromic	BTD
Thin & Dark Grey	Photochromic	GTD

# SPECTACLE LENS COATING SETUP

**Figure 2.29:** Menu location



**Figure 2.30:** Screen diagram

Coatings			
Description	Charge	External Lab Code	DB Stat

## Spectacle Lens Coatings

This is where the external lab codes for spectacle lens coatings are entered. Any spectacle lens coatings with an external lab code entered here will be sent to the coating area (field number 115 for a right lens or 136 for a left lens) on the DVI lab order entry screen. All external lab codes require either a preceding or trailing minus ("-"). This tells the lab that the coating is a factory coating (trailing minus) or to be applied in the lab (preceding minus). Each DVI order entry coating field will allow one factory and one lab coating code to be entered per eye. If more codes are sent, they will be put in the special instruction (also called the service description) area. For further information on specific coded tints setup, refer to section two under *Specific Lens Setup: Coatings*.

*(See appendix A-1 for illustration of DVI lab order entry screen)*

## Basic External Lab Codes: Coatings

The following is a list of some of the basic external lab codes currently supported by the DVI lab order entry computer (There may be more codes available). You should discuss the various options available with your own DVI laboratory.

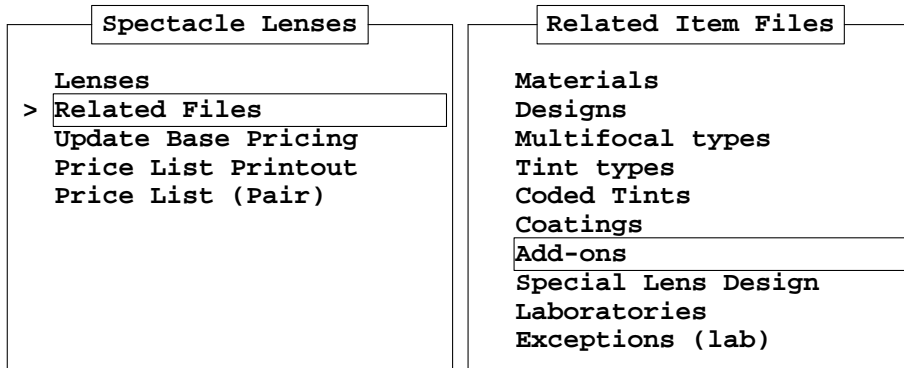
*(Note: The SAPIENT description can be anything, but the DVI code must match)*

<b>SAPIENT Description</b>	<b>DVI Code</b>
Edge Coating	-EDG
Hydro A/R Carat	-SET
Hydro A/R Marathon 1 Side	-MAR
Hydro A/R Marathon Both Sides	-MR2
Hydro Anti-Reflective Aurora	-AUR
Scratch Coat Factory S/V	-MFG
Strip Coating	FLD#SRV,STP
UV-400	FLD#SRV,UV

*Note: In order to use the FLD#SRV redirecting utility, you must first verify that your DVI lab allows the specified external lab code in the service code field.*

# SPECTACLE LENS ADD-ON SETUP

**Figure 2.31: Menu location**



**Figure 2.32: Screen diagram**

Add-ons				
Description	Charge	Upper	Lower	External Lab Code
DB Status: _____				

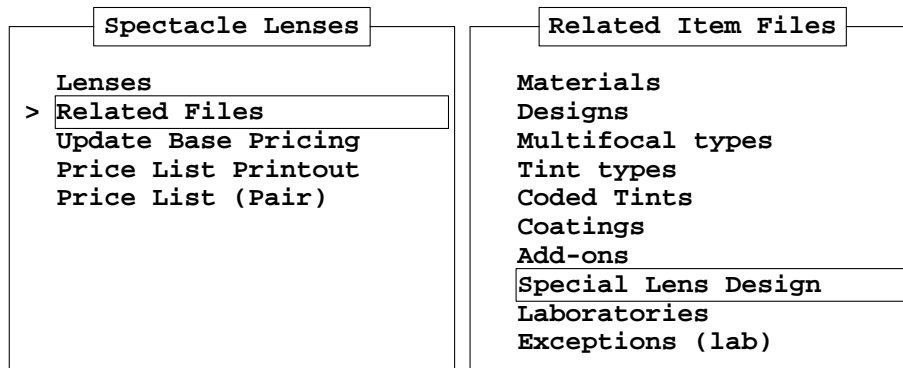
## Spectacle Lens Add-ons

This is where the external lab codes for spectacle lens add-ons are entered. Any spectacle lens add-ons with an external lab code entered here will be sent to the service code area on the DVI lab order entry screen. These service codes need to be specifically set up by the appropriate lab. If no external lab code is entered, then the description field gets sent to the special instruction (also called the service description) area. See section two for further information on specific add-ons under *Specific Lens Setup: Add-ons*.

(See appendix A-1 for illustration of DVI lab order entry screen)

# SPECTACLE LENS SPECIAL DESIGN SETUP

**Figure 2.33:** Menu location



**Figure 2.34:** Screen diagram

Special Spectacle Lens Design				
Description	Charge	One lens	Lenses only	Balance
Metal: _____ Rimless: _____ Surfaced: _____				
External Lab Code: _____ DB Status: _____				
*** ALL OF THESE AMOUNTS ARE IN ADDITION TO STANDARD PRICING ***				

## Spectacle Lens Special Designs

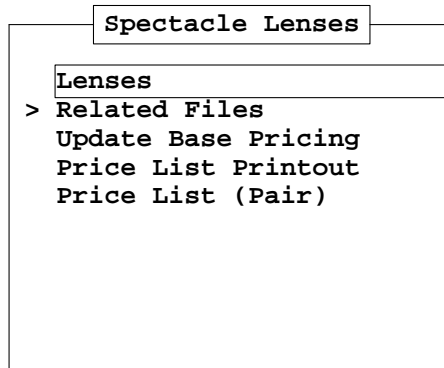
This is where the external lab codes for special spectacle lens designs are entered. Any special spectacle lens designs with an external lab code entered here will be sent to the service code area on the DVI lab order entry screen. These service codes need to be specifically set up by the appropriate lab. If no external lab code is entered, then the description field gets sent to the special instruction (also called the service description) area.

*(See appendix A-1 for illustration of DVI lab order entry screen)*

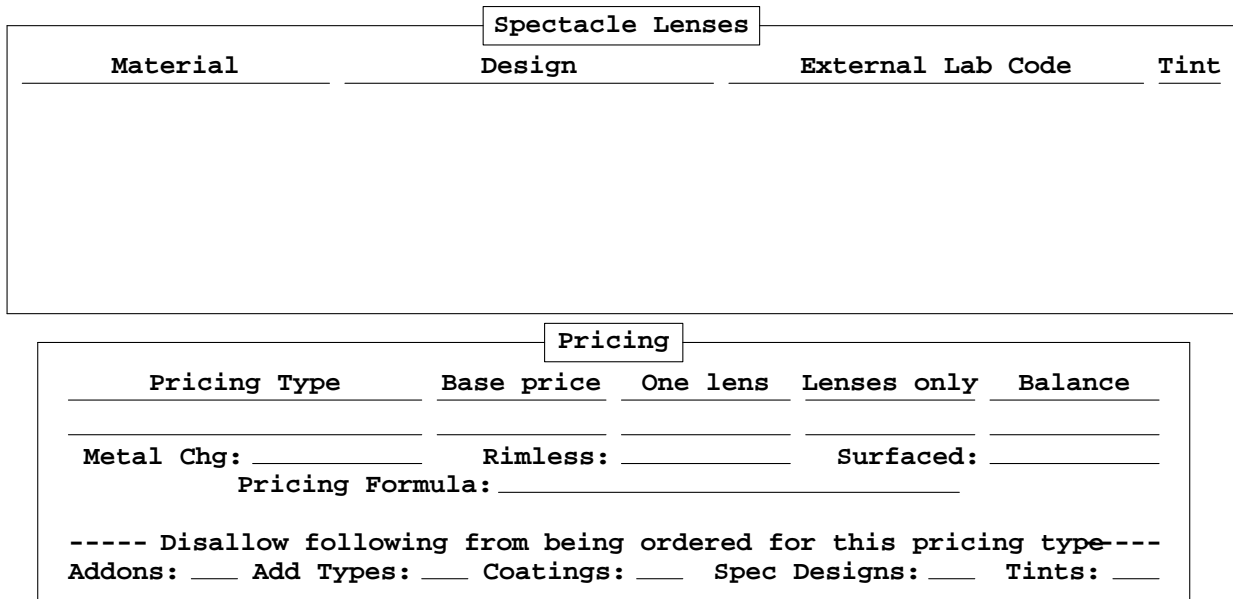


# SPECIFIC SPECTACLE LENS SETUP

**Figure 2.35: Menu location**



**Figure 2.36: Screen diagram**



## Specific Spectacle Lenses

This is where external lab codes for specific spectacle lens material / design combinations are entered. Any combinations with an external lab code entered here will be sent to the spectacle lens design area (field number 68 for a right lens or 87 for a left lens) on the DVI lab order entry screen. External lab codes entered at this level will override any lab codes entered at the base spectacle lens design or multifocal(add) type screens. See section two for further in-

formation on design external lab code overrides under *Specific Lens Setup: Add Types*.

*(See appendix A-1 for illustration of DVI lab order entry screen)*

All other specific lens setup screens are located on the F8 menu from this screen. To access the F8 menu, select the appropriate lens combination and hit the **F8** key.

### **Basic External Lab Codes: Specific Lens**

The following is a list of some of the basic external lab codes currently supported by the DVI lab order entry computer (There may be more codes available). You should discuss the various options available with your own DVI laboratory.

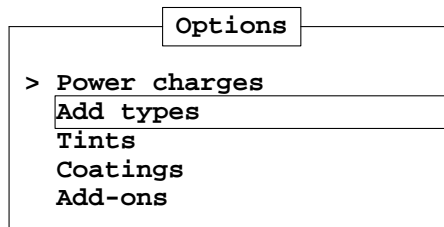
*(Note: The SAPIENT description can be anything, but the DVI code must match)*

<b>Material</b>	<b>Design</b>	<b>DVI Code</b>
Kodak 3000 1.56	Single Vision	KODAK-SV
Kodak 3000 1.56	Bifocal	KODAK-ST
Kodak 3000 1.56	Progressive	KODAK
Poly-Thin	Single Vision	FLD#SRV,PTHN
Poly-Thin	Bifocal	FLD#SRV,PTHN
Poly-Thin	Trifocal	FLD#SRV,PTHN
Seiko MX	Single Vision	ASPERIC-SV:FLD#COT,-DMX

*Note: In order to use the FLD#SRV redirecting utility, you must first verify that your DVI lab allows the specified external lab code in the service code field.*

# SPECIFIC SPECTACLE LENS: ADD TYPES SETUP

**Figure 2.37:** F8 Menu location



**Figure 2.38:** Screen diagram

A screen diagram showing a table with four columns: 'Description', 'Tint', 'Price', and 'External Lab Code'. The table is empty. Above the table, a box labeled 'Add Types' is highlighted.

Description	Tint	Price	External Lab Code
-------------	------	-------	-------------------

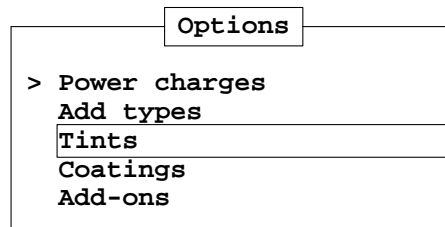
## Specific Spectacle Lens: Add Types

This is where external lab codes for specific spectacle lens add(multifocal) types are entered. Any specific add types with an external lab code entered here will be sent to the spectacle lens design area (field number 68 for a right lens or 87 for a left lens) on the DVI lab order entry screen. External lab codes entered at this level will override any lab codes entered at the specific lens combination or the base spectacle lens design or base multifocal(add) type screens.

*(See appendix A-1 for illustration of DVI lab order entry screen)*

# SPECIFIC SPECTACLE LENS: TINTS (COLORS) SETUP

**Figure 2.39:** F8 Menu location



**Figure 2.40:** Screen diagram

A screen diagram showing a table with five columns. The columns are labeled: 'Code', 'Tint type', 'Add type', 'Price', and 'External Lab Code'. Above the table, a box labeled 'Tints' is connected by a line to the table area. The table itself is empty, with only the column headers visible.

Code	Tint type	Add type	Price	External Lab Code
------	-----------	----------	-------	-------------------

## Specific Spectacle Lens: Tints (Colors)

This is where external lab codes for specific spectacle lens tints (colors) are entered. Any specific tints with an external lab code entered here will be sent to the lens color area (field number 111 for a right lens or 132 for a left lens) on the DVI lab order entry screen. External lab codes for tints entered at this level are considered a colored material by the lab and no tint type code will get sent to the lab system for tint types (field number 113 for a right lens or 134 for a left lens will be left blank).

*(See appendix A-1 for illustration of DVI lab order entry screen)*

## Basic External Lab Codes: Colors

The following is a list of some of the basic external lab codes currently supported by the DVI lab order entry computer (There may be more codes available). You should discuss the various options available with your own DVI laboratory.

*(Note: The SAPIENT description can be anything, but the DVI code must match)*

<b>Glass - Single Vision</b>		
<b>Color</b>	<b>Tint Type</b>	<b>DVI Code</b>
G-15	Solid	G15
Green 3	Solid	GN3
Grey 1	Solid	GY1
Grey 2	Solid	GY2
Grey 3	Solid	GY3
Photobrown Extra	Photochromic	PBX
Photogrey II	Photochromic	PG2
Photogrey Extra	Photochromic	PGX
Pink 1	Solid	PK1
Pink 2	Solid	PK2
Photosun II	Photochromic	PS2
Pink 3	Solid	PK3

<b>Glass - Bifocal</b>			
<b>Add Type</b>	<b>Color</b>	<b>Tint Type</b>	<b>DVI Code</b>
CFR 22 (GLASS)	Green 3	Solid	GN3
FT-25	Green 3	Solid	GN3
FT-28	Green 3	Solid	GN3
FT-35	Green 3	Solid	GN3
Ultex A	Green 3	Solid	GN3
CFR 22 (GLASS)	Grey 1	Solid	GY1
FT-25	Grey 1	Solid	GY1
FT-28	Grey 1	Solid	GY1
FT-35	Grey 1	Solid	GY1
CFR 22 (GLASS)	Grey 2	Solid	GY2
FT-25	Grey 2	Solid	GY2
FT-28	Grey 2	Solid	GY2
FT-35	Grey 2	Solid	GY2
Ultex A	Grey 2	Solid	GY2
CFR 22 (GLASS)	Grey 3	Solid	GY3
FT-25	Grey 3	Solid	GY3
FT-28	Grey 3	Solid	GY3
FT-35	Grey 3	Solid	GY3
Executive Bifocal	Grey 3	Solid	GY3
Ultex A	Grey 3	Solid	GY3
CFR 22 (GLASS)	Photobrown Extra	Photochromic	PBX
FT-25	Photobrown Extra	Photochromic	PBX
FT-28	Photobrown Extra	Photochromic	PBX
FT-35	Photobrown Extra	Photochromic	PBX
CFR 22 (GLASS)	Photogrey II	Photochromic	PG2
FT-25	Photogrey II	Photochromic	PG2

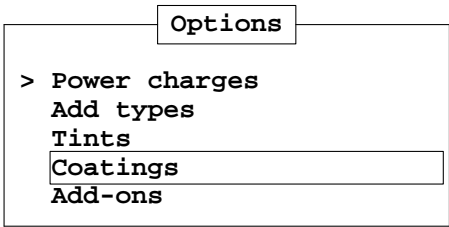
<b>Glass - Bifocal (continued)</b>			
<b>Add Type</b>	<b>Color</b>	<b>Tint Type</b>	<b>DVI Code</b>
FT-28	Photogrey II	Photochromic	PG2
FT-35	Photogrey II	Photochromic	PG2
CFR 22 (GLASS)	Photogrey Extra	Photochromic	PGX
FT-25	Photogrey Extra	Photochromic	PGX
FT-28	Photogrey Extra	Photochromic	PGX
FT-35	Photogrey Extra	Photochromic	PGX
Executive Bifocal	Photogrey Extra	Photochromic	PGX
Ultex A	Photogrey Extra	Photochromic	PGX
FT-28	Thin & Dark Brown	Photochromic	BTD
FT-28	Thin & Dark Grey	Photochromic	GTD
CFR 22 (GLASS)	Pink 1	Solid	PK1
FT-25	Pink 1	Solid	PK1
FT-28	Pink 1	Solid	PK1
FT-35	Pink 1	Solid	PK1
Executive Bifocal	Pink 1	Solid	PK1
Ultex A	Pink 1	Solid	PK1
CFR 22 (GLASS)	Pink 2	Solid	PK2
FT-25	Pink 2	Solid	PK2
FT-28	Pink 2	Solid	PK2
FT-35	Pink 2	Solid	PK2
Executive Bifocal	Pink 2	Solid	PK2
Ultex A	Pink 2	Solid	PK2
CFR 22 (GLASS)	Pink 3	Solid	PK3
FT-25	Pink 3	Solid	PK3
FT-28	Pink 3	Solid	PK3
FT-35	Pink 3	Solid	PK3

<b>Glass - Trifocal</b>			
<b>Add Type</b>	<b>Color</b>	<b>Tint Type</b>	<b>DVI Code</b>
7x25	Green 3	Solid	GN3
7x28	Green 3	Solid	GN3
7x25	Grey 1	Solid	GY1
7x28	Grey 1	Solid	GY1
7x25	Grey 2	Solid	GY2
7x28	Grey 2	Solid	GY2
7x25	Grey 3	Solid	GY3
7x28	Grey 3	Solid	GY3
7x25	Photobrown Extra	Photochromic	PBX
7x28	Photobrown Extra	Photochromic	PBX
7x25	Photogrey II	Photochromic	PG2
7x28	Photogrey II	Photochromic	PG2
7x25	Photogrey Extra	Photochromic	PGX
7x28	Photogrey Extra	Photochromic	PGX
7x35	Photogrey Extra	Photochromic	PGX
Executive Trifocal	Photogrey Extra	Photochromic	PGX
7x25	Pink 1	Solid	PK1
7x28	Pink 1	Solid	PK1
Executive Trifocal	Pink 1	Solid	PK1
7x25	Pink 2	Solid	PK2
7x28	Pink 2	Solid	PK2
7x25	Pink 3	Solid	PK3
7x28	Pink 3	Solid	PK3

<b>Glass - Progressive</b>			
<b>Add Type</b>	<b>Color</b>	<b>Tint Type</b>	<b>DVI Code</b>
Progressive	Photochromic	Photogrey Extra	PGX

# SPECIFIC SPECTACLE LENS: COATINGS SETUP

**Figure 2.41:** F8 Menu location



**Figure 2.42:** Screen diagram

A screen diagram showing a table with the following columns: "Coating", "Price", "Def Base", and "External Lab Code". The "Coatings" title is centered above the table. The table is currently empty.

## Specific Spectacle Lens: Coatings

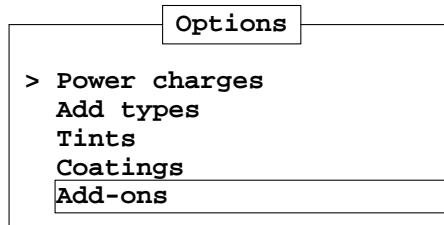
This is where external lab codes for specific spectacle lens coatings are entered. Any specific coatings with an external lab code entered here will be sent to the coating area (field number 115 for a right lens or 136 for a left lens) on the DVI lab order entry screen. All external lab codes require either a preceding or trailing minus ("-"). This tells the lab that the coating is a factory coating (trailing minus) or to be applied in the lab (preceding minus). Each DVI order entry coating field will allow one factory and one lab coating code to be entered per eye. If more codes are sent, they will be put in the special instruction (also called the service description) area. External lab codes entered at this level will override any lab codes entered at the base spectacle lens coating screen.

*(See appendix A-1 for illustration of DVI lab order entry screen)*



## SPECIFIC SPECTACLE LENS: ADD-ONS SETUP

**Figure 2.43:** F8 Menu location



**Figure 2.44:** Screen diagram

A diagram of a screen layout. At the top, the text "Add-ons" is enclosed in a small rectangular box. Below this, a table is shown with three columns: "Add-on", "Price", and "External Lab Code". Each column header is underlined. The table body is empty.

<u>Add-on</u>	<u>Price</u>	<u>External Lab Code</u>
---------------	--------------	--------------------------

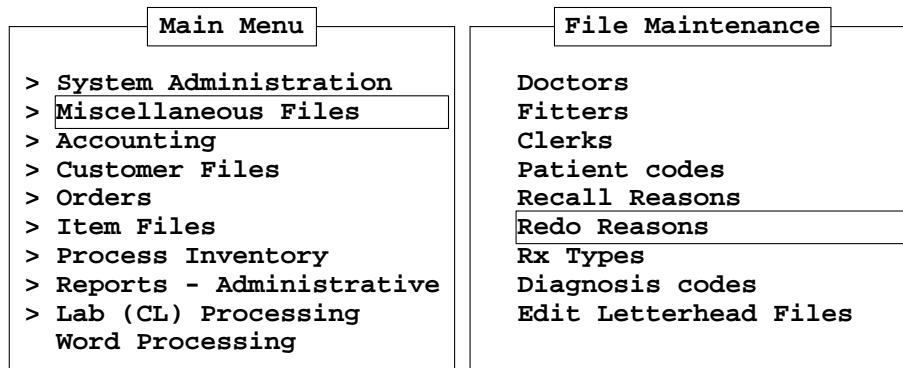
### **Specific Spectacle Lens: Add-ons**

This is where external lab codes for specific spectacle lens add-ons are entered. Any specific add-ons with an external lab code entered here will be sent to the service code area on the DVI lab order entry screen. These service codes need to be specifically set up by the appropriate lab. If no external lab code is entered, then the description field gets sent to the special instruction (also called the service description) area. External lab codes entered at this level will override any lab codes entered at the base spectacle lens add-ons screen.

*(See appendix A-1 for illustration of DVI lab order entry screen)*

# REDO REASON SETUP

**Figure 2.45:** Menu location



**Figure 2.46:** Screen diagram

Redo Reasons			
Description	Rx Chg	DB Stat	External Lab Code

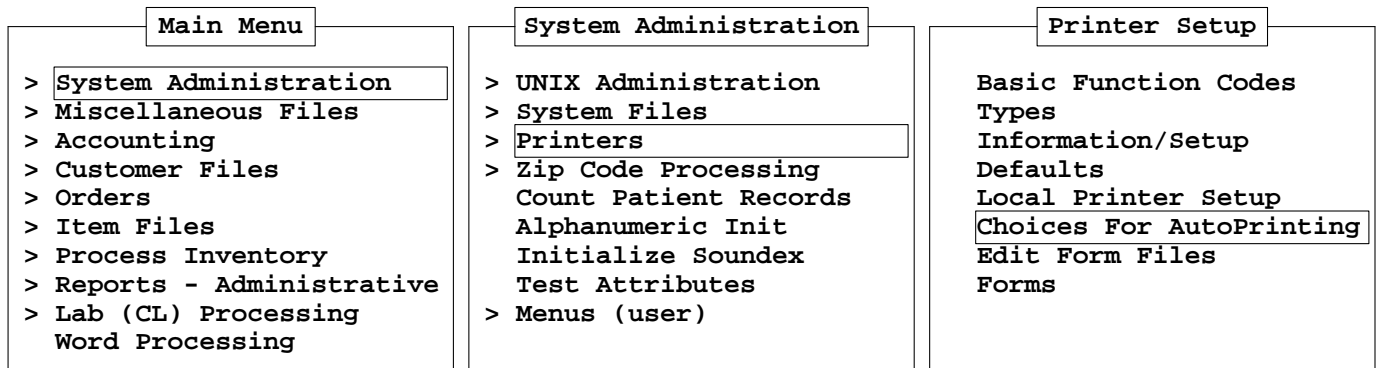
## Redo Reasons

This is where external lab codes for redo reasons are entered. Any redo reason with an external lab code entered here will be sent to the special instruction (also called the service description) area. If no redo reason code is set up here and the job is a redo, then "REDO" will be sent to the special instruction area on the DVI lab order entry screen.

*(See appendix A-1 for illustration of DVI lab order entry screen)*

# PRINTER CHOICE SETUP

**Figure 2.47: Menu location**



**Figure 2.48: Screen diagram**

Printer Choice						
Code	User	Br	Printer	Program	Form to use	#

## Printer Choices

This is where the *SAPIENT* system looks to find special flags which need to be set up in order for the bridge interface to work. There are three special flags which are important to the various bridge modules. These flags should only be modified with **WEB-SWARE**'s assistance.

## Printer Choice Codes

For the *SAPIENT* system to send spectacle orders to any lab, you must have the following entry in the choices file:

<b>Code</b>	<b>User</b>	<b>Branch</b>	<b>Printer</b>	<b>Program</b>
SLOLAB			DVI Laboratory System	dvicall

For the *SAPIENT* system to check spectacle orders from the order entry screen, you must have the following entry in the choices file:

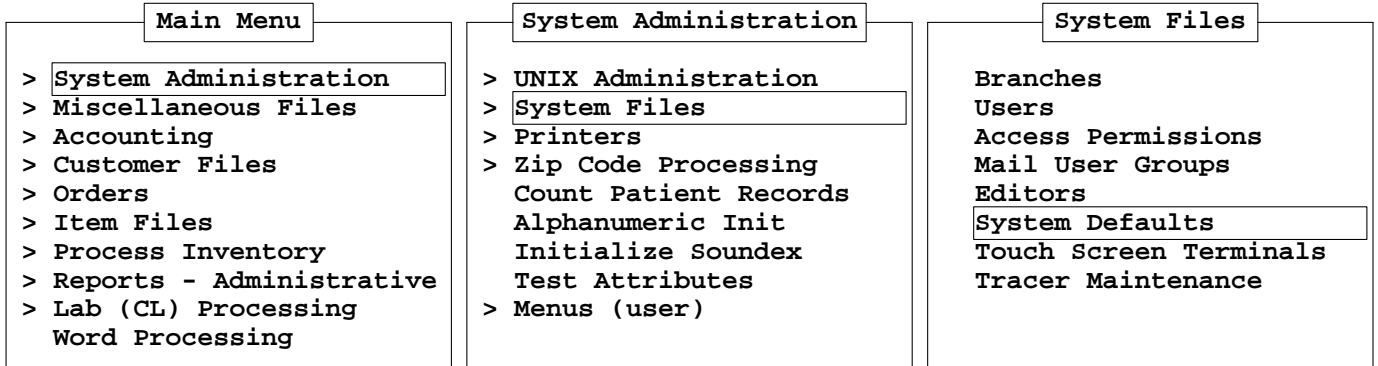
<b>Code</b>	<b>User</b>	<b>Branch</b>	<b>Printer</b>	<b>Program</b>
SLRXCHK			DVI Laboratory System	dvicall

To be able to retrieve a *Work In Process Report* or to check a jobs status from the *SAPIENT* system, you must have the following entry in the choices file:

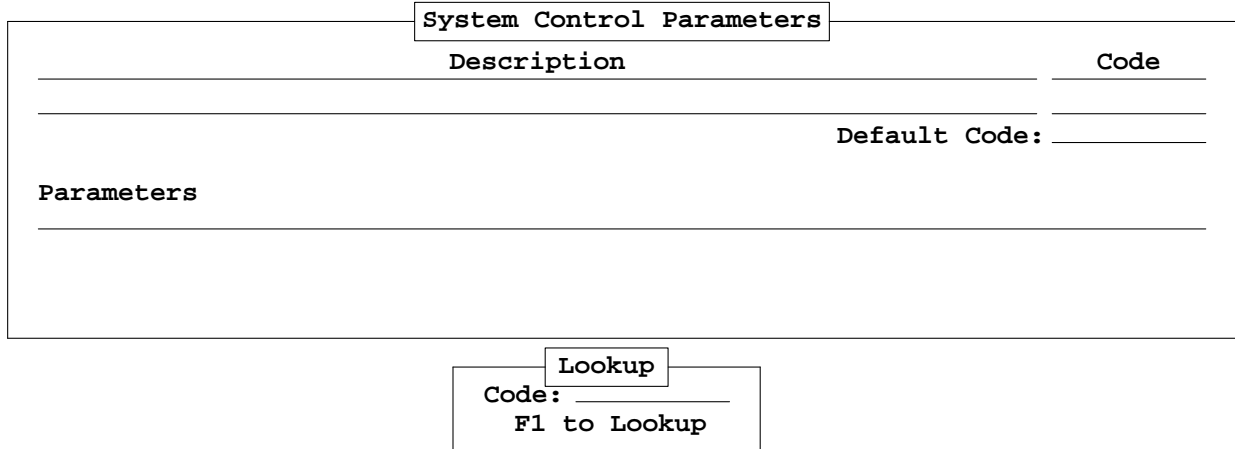
<b>Code</b>	<b>User</b>	<b>Branch</b>	<b>Printer</b>	<b>Program</b>
SLJOBSTAT			DVI Laboratory System	dvicall

# SYSTEM PARAMETER SETUP

**Figure 2.49: Menu location**



**Figure 2.50: Screen diagram**



## System Parameters

This is where the *SAPIENT* system looks to find control features which need to be set up to turn on/off certain bridge interface features. In order for a feature to be active, that control code must not have a minus sign ("-") in front of it. If the minus sign is present, then the *SAPIENT* default is the opposite of whatever the description indicates. For example: If the description says "SL Lab - Send all SL orders as batch jobs (not at POS)" and the code begins with a minus sign ("-SLLABBAT"), then the system parameter will send all jobs at the point-of-sale not as batch. These control mechanisms should only be modified with WEBSWARE's assistance.

*Note: You can toggle the feature on/off with the **F12** key.*

## System Parameter Control Codes

For the *SAPIENT* system to send spectacle orders into a batch queue to await transmission to the proper labs at some later time, the following control code must exist without the minus sign in the system parameter file. If the code has a minus sign, all jobs will be sent directly to the lab order entry computer when the order is accepted and printed at the store.

Description	Code
SL Lab - Send all SL orders as batch jobs (not at POS)	SLLABBAT

For the *SAPIENT* system to send the order number to be assigned to the DVI tray number, the following control code must exist without the minus sign in the system parameter file. If the code has a minus sign, DVI will assign the tray number and this value will be saved in the lab reference field on each order.

Description	Code
SL Lab - Send Sapient order number as DVI tray number	SNDSLTRAY

If the DVI lab that you are sending orders to does not have frames entered in their database (and they are not going to), all frame styles sent from the *SAPIENT* system will cause an edit error on the DVI order entry computer. You can solve this problem by turning on the following control feature and setting the control parameter to a star ("\*").

Description	Code	Parameter
DVI - Default global frame style prefix (* or /)	DVIFSPREF	*

For the *SAPIENT* system to send the fitter ID as part of the DVI account number, the following control code must exist without the minus sign in the system parameter file. If the code has a minus sign, the fitter ID will not be used as part of the DVI account number.

Description	Code
DVI - Send the fitter ID as part of the account #	DVISNDFIT

For the *SAPIENT* system to always order the frame from the lab (for internal DVI laboratories), the following control code must exist without the minus sign in the system parameter file. If the code has a minus sign, the frame manufacturer and style "order frame" flags determine if the frame is to be ordered from the lab.

<b>Description</b>	<b>Code</b>
DVI - Always order frame from lab (for internal labs)	DVIORDFR

For the *SAPIENT* system to always send a zero ("0") cost to field 203, the following control code must exist without the minus sign in the system parameter file. If the code has a minus sign, no value is sent to the cost field (#203).

*(Note: Currently this feature is not supported but may be implemented at some time in the future)*

<b>Description</b>	<b>Code</b>
DVI - Always send 0 cost to field 203	DVI0COST

For the *SAPIENT* system to NOT send the promised date to DVI, the following control code must exist without the minus sign in the system parameter file. If the code has a minus sign, the entered promised date is sent.

<b>Description</b>	<b>Code</b>
DVI - Do NOT send the promised date to DVI	DVINOPROM

For the *SAPIENT* system to always send an "N" in the frame to come value, the following control code must exist without the minus sign in the system parameter file. If the code has a minus sign, the default value of "D" is sent.

<b>Description</b>	<b>Code</b>
DVI - Send the "N" for frame to come instead of "D"	DVIFTC=N

If you always want to send a specific edge type code to the DVI lab (unless it is grooved) update the following control feature and set the control parameter to what you would like to send (default is "VE").

<b>Description</b>	<b>Code</b>	<b>Parameter</b>
DVI - Always send this code for edge type unless grooved (GD)	DVIEDGE	VE

To set an edge type default to the DVI lab field #14, find the following control feature and set the control parameter to the default value (usually an "E").

<b>Description</b>	<b>Code</b>	<b>Parameter</b>
DVI - Default for field 14 Edge	DVI014	E

If no trace is present for an order and you would like to send the actual sizes to the DVI lab, turn on the following control feature.

<b>Description</b>	<b>Code</b>
DVI - Send actual sizes if no trace present	SNDACTUAL

If you would like to send the tint description to field #148 on the DVI lab system, turn on the following control parameter.

<b>Description</b>	<b>Code</b>
DVI - Send Tint Description to field # 148	DVITNT148

The DVI lab system limits their order numbers and batch numbers to be only six digits. The *SAPIENT* system has no limits. In order to work properly, *SAPIENT* has created cycles that are used in conjunction with the following minimum and maximum system parameter pairs. You must have these parameters on and set properly to avoid potential problems with sending orders to a DVI lab. Once the maximum value has been reached a cycle number is incremented and the numbering is reset back to the corresponding minimum value.

<b>Description</b>	<b>Code</b>	<b>Parameter</b>
DVI - Maximum lab batch # (recycles to minimum)	MAXSLBAT	999999
DVI - Minimum lab batch # to recycles to (after max)	MINSLBAT	1
<b>Description</b>	<b>Code</b>	<b>Parameter</b>
SL Orders - Maximum order # (recycles to minimum order #)	MAXSLRX	999999
SL Orders - Minimum order# to recycle to (after max reached)	MINSLRX	1



## **Section 3**

# **DVI Bridge Modules**

## INTRODUCTION

This section describes how to use the various bridge modules and was written with the assumption that the user already has knowledge of the customer / order entry process. All of the components described in section two of this manual must be set up prior to using any of the bridge modules. A brief description of the various modules follows:

**Order Validation** - Any spectacle order can be checked for edit problems prior to submission to the lab.

**Automatic Order Transmission** - All spectacle orders are transmitted as they occur (no extra processing required to send order to the DVI computer).

**Batch Order Transmission** - All spectacle orders are placed into a queue to await transmission (requires someone to initiate the transmission of jobs waiting in the queue).

**Job Status** - Allows someone to check on the status of a single spectacle job in the DVI computer.

**Work in Process Report** - Allows someone to check on the status of all outstanding jobs associated with their location.

# DVI BRIDGE: GLASSES ORDER VALIDATION

**Figure 3.1: Glasses order entry screen diagrams**

```

Cust   : _____ PageDown FOR LENS RX
                _____ S-F6 FOR AVAILABILITY
Order# : _____ Lab Ref#: _____
Fitter : _____
Rx Type: _____

Frm Mfg: _____ Lenses Only :_ _____
Name   : _____ Modify Old Lens: _ _____
Color  : _____ Rimless/Metal :_ _____
                Multiple Rx   :_ Frame : _____
-----MARKED----- -----ACTUAL----- Phone When In :_ Lenses : _____
Eyesize: _____ B : _____ Frame From Inv?:_ Total : _____
DBL    : _____ ED: _____ Reorder Frame :_ _____
                C : _____ Frame Enclosed?:_ _____
                Uncut Lens? : _____
                --RIGHT-----LEFT-- Rx Date : _____ Received : _____
Temple : _____ Promised: _____ Picked Up: _____

----- FRAME ORDER ----- -- SPECIAL INSTRUCTIONS -- ----- FRAME ADD-ONS -----
_____
_____
    
```

```

Sphere   Cyl   Axis  --Prism1--  --Prism2-- Thick   Base   PD MRP
OD _____
OS _____

Add Height Width Add Type          PD   Balance   F9   COPY
OD _____
OS _____
                PgUp FRAME INFO

                -----RIGHT-----LEFT-----
Material _____
Design   _____
Special  _____
Tint Type _____
Tint     _____

                -----ADD ONS-----
                _____
                _____
                -----COATINGS-----
                _____
                _____
    
```

## Order Validation

The order validation module of the DVI bridge interface should be used on orders which are questionable. Orders that are very basic do not really need to be validated. Numerous orders being validated simultaneously will degrade the bridge performance. In order to use the order validation module of the DVI bridge interface, you must have the proper entries in the printer choices file (see section two under *Printer Choice Setup*).

To validate an order that has been entered in the *SAPI-ENT* system with the appropriate DVI lab, you must do the following:

- 1) Enter a glasses order completely, and hit the **PAGE UP** key to return to the first screen of the order.
- 2) While still in update mode (the order has not yet been saved), hit the **F12** key to validate the current order with the DVI lab computer.
- 3) At this time, a connection is made with the DVI lab computer and the order is sent to be checked.
- 4) If there are any problems with the order, an error message will be received and displayed on the screen.
- 5) Any modifications can now be made on the order and then resubmitted for validation again. You may repeat as many times as you like until the order passes validation by the DVI computer.

*Note: Future enhancements may be made to the order validation messages to give more specific failure messages.*

## AUTOMATIC ORDER TRANSMISSION

If you have an in-house DVI laboratory system, it is recommended that you use the DVI bridge in *Automatic Order Transmission* mode. In this mode, the *SAPIENT* system automatically sends glasses orders through the bridge to the DVI laboratory computer when an invoice is printed. (This default configuration can be changed to batch transmission by turning on the proper control flag in the *System Default* file. See section two under *System Default Setup* for more information.) The following entry must exist in the printer choice file to be able to transmit orders to the DVI lab computer.

<b>Code</b>	<b>User</b>	<b>Branch</b>	<b>Printer</b>	<b>Program</b>
SLOLAB			DVI Laboratory System	dvicall

You have the ability to configure the *SAPIENT* system to either print or not print the hard copy of the order in the lab if you are automatically sending the order to the DVI lab computer. If the following entry is available in the printer choice file for the proper user / branch combination, then a hard copy of the glasses order will be printed in the lab otherwise no hard copy will be printed. (The user and branch fields can be left blank to be used as a system default.)

<b>Code</b>	<b>User</b>	<b>Branch</b>	<b>Printer</b>	<b>Program</b>
SLORDER			Laboratory Printer	pss3prt

Automatic transmission of glasses orders requires no other human intervention to get orders from the *SAPIENT* system to the DVI system. In this mode you must have a dedicated DVI laboratory order entry computer. Otherwise, data bottlenecks will occur resulting in degradation of system performance. (Note: The *SAPIENT* system will try to send the order three times, if it fails after the third attempt, then that job will be stored in the batch queue anyway and will need to be transmitted manually later.) You may also decide to run the DVI bridge in batch transmission mode to have greater control over your orders (see next page).

# BATCH ORDER TRANSMISSION

Using the DVI bridge module in batch transmission mode will cause all glasses orders to be placed into a queue when an invoice is printed. Periodically throughout the day, someone has to then transmit all queued orders to the appropriate labs (usually some lab personnel). This allows greater control over order transmission in the lab and speeds up the invoice processing at the point-of-sale. It is also possible to configure the system to automatically send these batch jobs for you at some specified increment. This feature is controlled from an operating system feature called "crontab" and should be configured by websWARE.

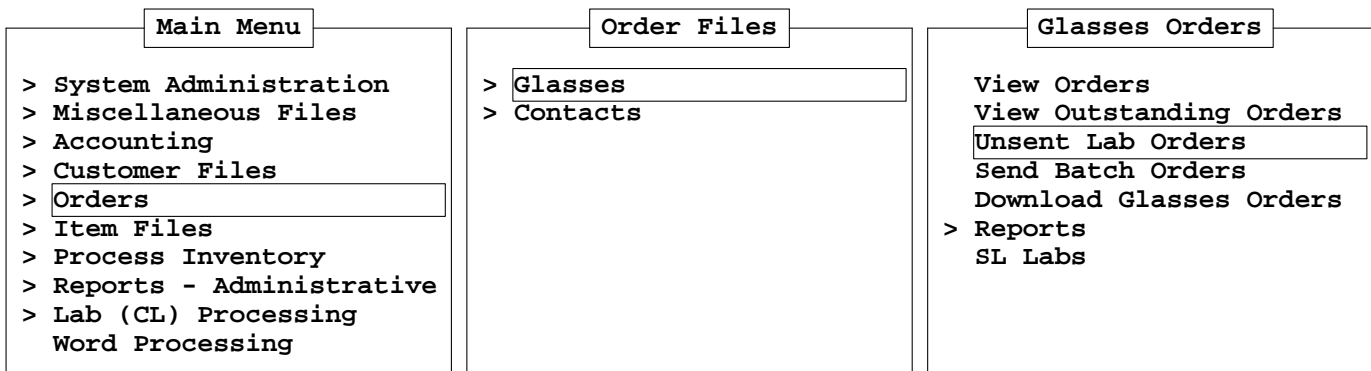
To use the DVI bridge module in the batch transmission mode you must have the following entry in the *System Default* file. (See section two under *System Default Setup* for more information)

Description	Code
SL Lab - Send all SL orders as batch jobs (not at POS)	SLLABBAT

When orders are ready to be transmitted, you must go to the *Unsent Lab Orders* screen.

## Unsent Lab Orders (Glasses)

Figure 3.2: Menu location



**Figure 3.3: Screen diagram**

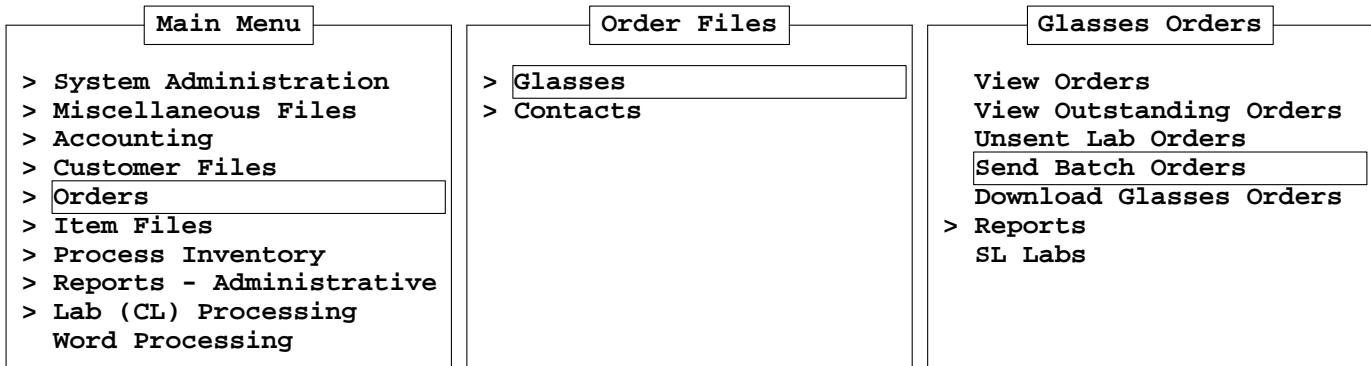
Spectacle Lens Unsent Orders			
Order #	Lab	Ord ST	Patient Information

This is where all outstanding glasses orders to be transmitted are queued. The *Unsent Lab Orders* application will allow you to view all waiting orders and make any last minute changes to the "lab" and the "order frame from lab" fields prior to batch transmission. To do the actual transmission of the batch jobs in the queue, you need to run *Send Batch Orders*.

Please note that if you have a "frame only" order it still gets created in this queue. This gives you one last chance to update the "order frame from lab" field. If the "order frame from lab" field is set to "no" and it is a "frame only" order, when you send the jobs these will just disappear.

### Send Batch Orders (Glasses)

**Figure 3.4: Menu location**



**Figure 3.5: Screen diagram**

Send Spectacle Orders To Lab

Send which lab's unsent spectacle orders?

Lab: \_\_\_\_\_

ORDER NUMBERS TO SEND

Begin: \_\_\_\_\_ End: \_\_\_\_\_

The *Send Batch Orders* screen will automatically default to the lab of the oldest order in the queue. This lab can then be modified to any lab for which jobs are waiting to be sent. The range of order numbers to be transmitted will also be defaulted for the selected lab. This range can be modified to send only a few orders at a time if so desired.

Once the lab and order number range are correct, hit the **F1** key to transmit the orders to the appropriate lab. This procedure will connect the *SAPIENT* system to the selected DVI laboratory order entry computer and begin the transfer of all specified orders. At this time, the DVI lab computer accepts the job, assigns a tray number, and transmits the tray number and order comments back to the *SAPIENT* system. The *SAPIENT* system then marks the order as being sent to the lab with a date and time and stores the lab tray number (in the *Lab Reference Number* field) as well as any DVI order comments. (See section 3 under *Job Status* to see how to view this information.)

The sending of batch orders to the appropriate lab can be done as often as needed. One possible future enhancement to the sending of batch orders may be to have them automatically transmitted based on some specified time increment.

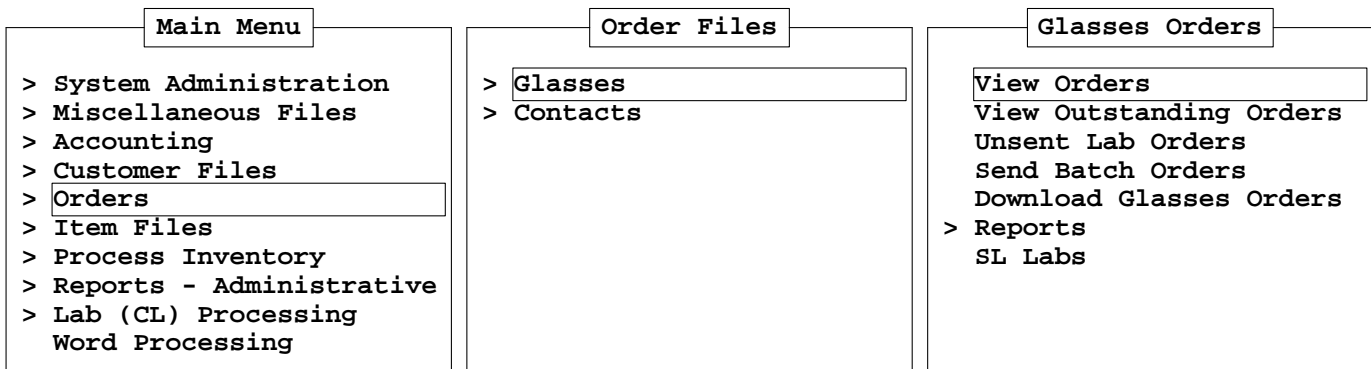


## JOB INFORMATION (GLASSES ORDER)

The spectacle order *Job Information* screen is accessed from the **F8 Menu** off of the *View Orders* application on the lab menu or off of the *Outstanding Glasses Orders* application on the branch menu.

### View Glasses Order (Lab)

**Figure 3.6:** Menu location



**Figure 3.7:** Screen diagram

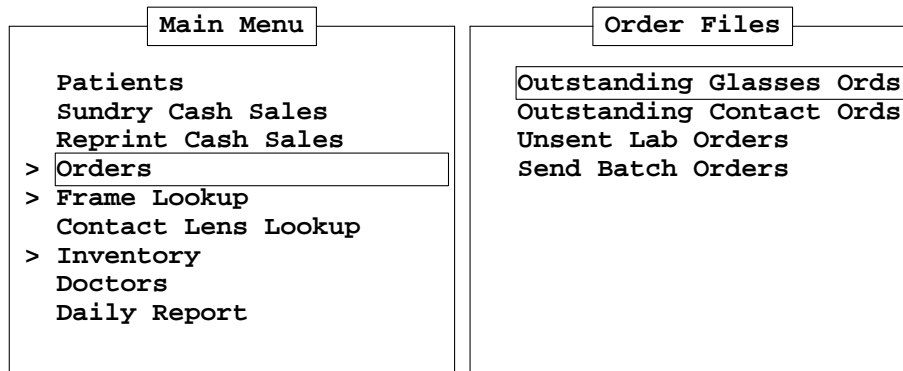
Spectacle Orders						
Order#	Cyc	Br	CD	Date	Lab Ref #	Patient

Codes (CD)				
C = Canceled	N = NOT Dispensed	P = Picked up	R = Redo	X = Redone

## View Glasses Order (Branch)

**Figure 3.8:** Menu location



**Figure 3.9:** Screen diagram

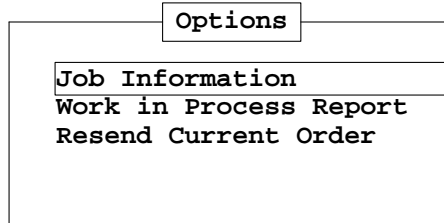
The screen diagram for 'Spectacle Orders' features a table with the following header: Order# Cyc Br CD Date Lab Ref # Patient. Below the table is a form with the following fields: Order#: X, Receive Date: \_\_\_\_\_, Home: \_\_\_\_\_, Work: \_\_\_\_\_, Pickup Date : \_\_\_\_\_, and Comment: \_\_\_\_\_.

Codes (CD)  
C = Canceled    N = NOT Dispensed    P = Picked up    R = Redo X = Redone

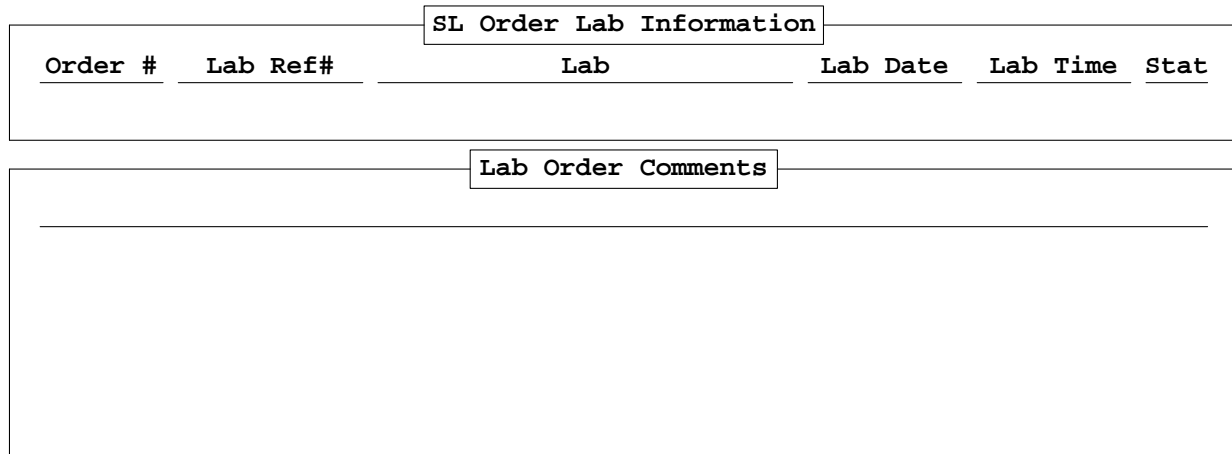
Once in the appropriate "view order" screen, highlight the spectacle order that you wish to view the status of and hit the **F8** key. The "F8 Menu" will be displayed. Select *Job Information* and hit **ENTER**.

## Job Information (Glasses)

**Figure 3.10:** Menu location



**Figure 3.11:** Screen diagram



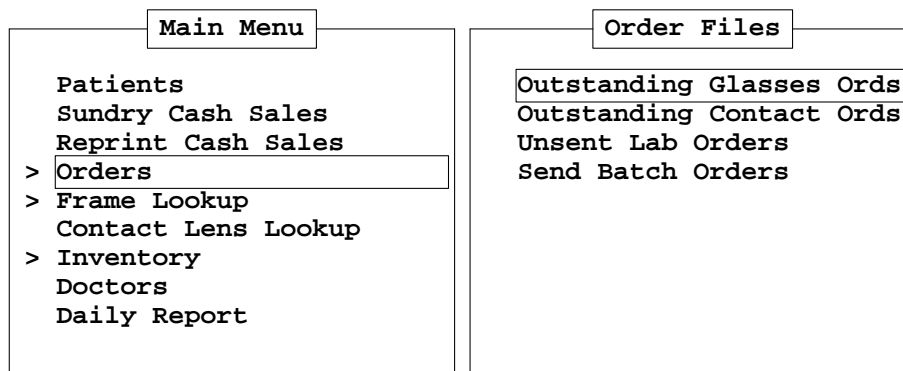
The *Job Information* screen shows the lab the order was transmitted to as well as the date and time it was sent. In addition, the lab reference number and comments returned by the DVI lab are also shown here. The comment field may be used to store any comments about the order. The *Status* field can have a value of "NO" (not yet ordered from the DVI lab) or "OR" (job has already been ordered from the lab).

## WORK IN PROCESS REPORT (GLASSES ORDER)

The spectacle order *Work In Process Report* screen is accessed from the **F8 Menu** off of the *Outstanding Glasses Orders* application on the branch menu.

### View Glasses Order (Branch)

**Figure 3.12:** Menu location



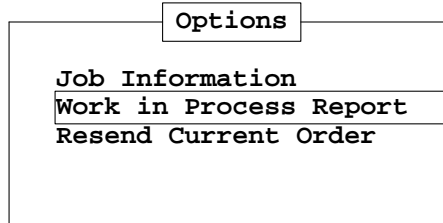
**Figure 3.13:** Screen diagram

The screenshot shows the 'Spectacle Orders' screen. At the top, a header box is labeled 'Spectacle Orders'. Below it is a table with columns: Order#, Cyc, Br, CD, Date, Lab Ref #, and Patient. Below the table is a form for order details. The form includes a box for 'Order#: X' and fields for 'Receive Date:', 'Home:', 'Work:', 'Pickup Date:', and 'Comment:'. At the bottom, a box labeled 'Codes (CD)' contains the legend: C = Canceled, N = NOT Dispensed, P = Picked up, R = Redo, X = Redone.

Once in the "view order" screen, hit the **F8** key. The "F8 Menu" will be displayed. Select **Work In Process Report** and hit **ENTER**.

# Work In Process Report

**Figure 3.14:** Menu location



When first entering the application, you will be asked if you want to retrieve a *Work In Process Report*. Answering "Yes" will cause the program to connect to the DVI lab order entry computer and get the current status of all jobs associated with the branch of the user requesting the report. The report is then stored and can be viewed at any time until a new *Work In Process Report* is requested. To request a new report, hit the **F11** key and answer "Yes" to the prompt. A new report will then be retrieved and will replace the old one. A hard copy of the report can be printed on any printer by hitting the **PRINT** key.

**Figure 3.15:** Sample Work In Process Report

A screenshot of a report titled "Work In Process Report". The report is presented as a table with the following columns: ACCOUNT, RXNUM, REFERENCE, INV, ENTRY-DATE, SHIP-DATE, and STAT. The data rows list various accounts and their associated job information.

ACCOUNT	RXNUM	REFERENCE	INV	ENTRY-DATE	SHIP-DATE	STAT
3100	2138	BISHOP BILLY	259839	03/13 15:13		WLNS 03/14
3100	2720	ZEGER ZIG	270020	04/05 08:46		IP
3100	2845	DOWLER DEBBIE	272341	04/11 09:37		IP
3100	2852	DOYLE DONNIE	272343	04/11 09:37		IP
3100	2906	DEAN DEAN	273805	04/15 13:08		IP
3100	2916	LEWIS LOUIS	273807	04/15 13:08		IP
3100	2920	MARSH MURKY	273809	04/15 13:08		IP
3100	2922	KRUMPE OFFICER	273810	04/15 13:08		IP
3100	2923	HOUSE PARTY	273811	04/15 13:08		IP
3100	943	NUNEMAKER NUN	274765	04/17 08:44		IP
3100	946	RUPP INTER	274767	04/17 08:45		IP
3100	947	BENEDICT BENNY	274768	04/17 08:45		IP
3100	948	MILES ALOTOF	274770	04/17 08:45		IP

Search String: \_\_\_\_\_

*Note: The format and content of this report is controlled by DVI*

# **Appendix**

# DVI LAB ORDER ENTRY SCREEN

**Figure A.1:** Screen diagram

TRAY	ACCT	MTRL	PATIENT			RX#	SHIP	EDGE	GRD	BILL	PLIST				
2	4	6	8			10	12	14	16	18	20				
SPHERE CYL		AXIS	DISTANCE	NEAR	FORM	ENC	PRISM(I/O)	PRISM(U/D/A)							
R	27	29	31	33	35	37	39 41	43							
L	46	48	50	52	54	56	58 60	62							
LENS STYLE		ADD	SGHT	THK	EC	OCHT	P	AD2							
R	68	70 72		74	76	78	80 82								
L	87	89 91		93	95	97	99 101								
BASE		COL	TNT	COAT	MA/SZ	IN	DN	BTHK	PRICE						
R	109	111	113	115	117	119	121	122	125						
L	130	132	134	136	138	140	142	144	146						
FRAME		TEMPLE			TOP			1/2							
152		154 156			158 160			162 164							
167		169		171	173		175		177						
EYE	180	BR	182	LN	184	TP	186	SET/BOX	ETYP	PATT	FTYP	MAT	CIRC	PRICE	
								191	193	195	197	199	201	203	
								DBL208	A1210	A2213	B1214	B2216			
								R1221	AX1223	R2225	AX2227	R3229	AX3231		
SERVICES		P		SERVICE DESCRIPTIONS							PRICES				
235	237	239	241	243	245							247			
250	252	254	256	258	260							262			
265	REDO		271	273	275							277			

The above diagram illustrates what the DVI lab order entry screen looks like. The field numbers correspond to the values the DVI system recognizes for directing data to that field on the screen. You use these field numbers in the *SAPIENT* system external lab code fields to redirect information to the proper location on the DVI lab screen. All external lab codes in the *SAPIENT* system will default to the proper corresponding DVI lab field, so no field number is necessary in those external lab fields. It is only when you need something sent to a different field other than the default that you use the DVI field numbers.

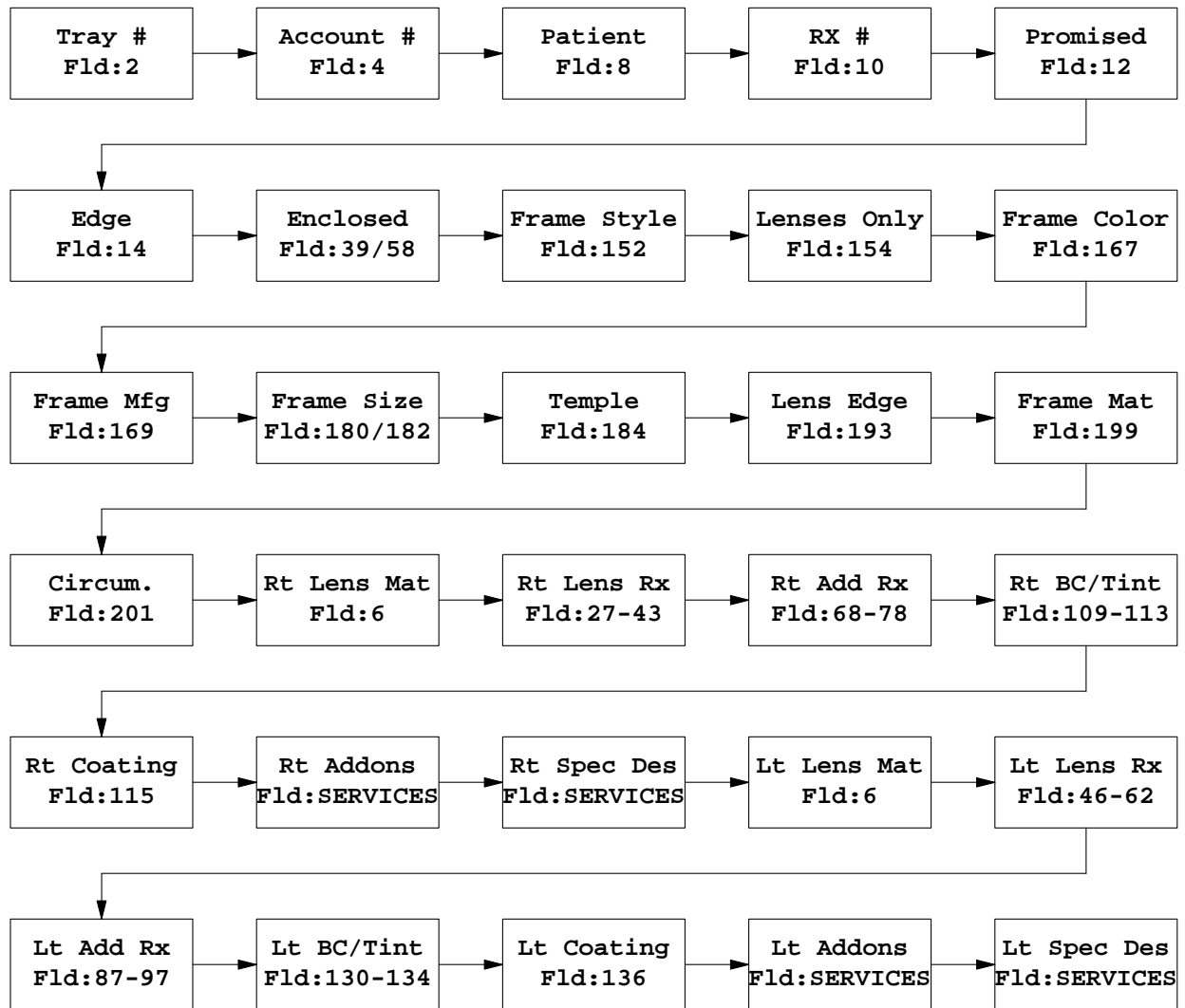
## DVI LAB ORDER ENTRY FIELD DESCRIPTIONS

<b>Fld#</b>	<b>Description</b>	<b>Fld#</b>	<b>Description</b>
2	Tray Number	130	Left Specified Base Curve
4	Account Number	132	Left Lens Color
6	Lens Material (Right/Left)	134	Left Lens Tint
8	Patient Name	136	Left Lens Coating (fff-hhh)
10	Rx Number	138	Left Manufacturer / Size
12	Ship Date	140	Left Blank Inset
14	Edge Preference	142	Left Blank Seg Drop
16	Grind Preference	144	Left Blank Thickness
18	Bill-to Account	146	Left Lens Price Override
20	Price List	152	Frame Name
27	Right Sphere Power	154	Frame Status
29	Right Cylinder Power	156	Temple Name
31	Right Cylinder Axis	158	Temple Status
33	Right Distance PD	160	Top Name
35	Right Near PD	162	Top Status
37	Right PD Mode Override	164	Half-top
39	Right Enclosed	167	Frame Color
41	Right Horizontal Prism	169	Frame Manufacturer
43	Right Vertical Prism	171	Temple Color
46	Left Sphere Power	173	Temple Manufacturer
48	Left Cylinder Power	175	Top Color
50	Left Cylinder Axis	177	Top Manufacturer
52	Left Distance PD	180	Eye Size
54	Left Near PD	182	Bridge Size
56	Left PD Mode Override	184	Temple Length
58	Left Enclosed	186	Temple Type
60	Left Horizontal Prism	191	Specified Horizontal Box of Frame
62	Left Vertical Prism	193	Edge Type
68	Right Lens Style	195	Specified Pattern Number
70	Right Add Power	197	Frame Type
72	Right Seg-height	199	Frame Material
74	Right Specified Thickness	201	Frame Circumference
76	Right Thickness Override	203	Frame Price Override
78	Right Optical Center Height	208	Frame True DBL
80	Right Form Override for O.C. Height	210	Frame A1
82	Right Add 2 (for double segs)	213	Frame A2
87	Left Lens Style	214	Frame B1
89	Left Add Power	216	Frame B2
91	Left Seg-height	235	Service Code
93	Left Specified Thickness	237	Service Code
95	Left Thickness Override	239	Service Code
97	Left Optical Center Height	250	Service Code
99	Left Form Override for O.C. Height	252	Service Code
101	Left Add 2 (for double segs)	254	Service Code
109	Right Specified Base Curve	265	Service Code
111	Right Lens Color	267	Service Code
113	Right Lens Tint	269	Service Code
115	Right Lens Coating (fff-hhh)	245	Service Description
117	Right Manufacturer / Size	260	Service Description
119	Right Blank Inset	275	Service Description
121	Right Blank Seg Drop		
122	Right Blank Thickness		
125	Right Lens Price Override		



# EXTERNAL LAB CODE HIERARCHY

**Figure A.2: Hierarchy**



The above diagram illustrates the order in which the DVI lab data packet is created. Items at the top of the diagram are created prior to items at the bottom of the diagram. It is important to keep this hierarchy in mind when utilizing the external lab code redirecting utility. For example: If you are using the *Frame Style* code to create an entry in the *Lens Edge* field, you must be aware that later when the *Lens Edge* value is determined, it will override anything created at the time the *Frame Style* code was evaluated. Currently, none of these override problems have come up.