Installation and Operating Guide for

LaserDisc System



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One Technology Plaza 7140 S. Lewis Avenue Tulsa, Oklahoma 74136-5422 918 488-4450

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Glossary of Terms

2400 BAUD DATA CHANNEL

This is the communications channel connecting the mainframe computer in Tulsa to each of the character generators at the cable headend. It is 2400 baud, asynchronous, ASCII data stream, 8-bit, no parity. This data stream contains all of the generic program information as well as specific channel lineups.

ANY KEY

This instruction on the diagnostics screens indicates to hit any keyboard key or the space bar.

BASEBAND

This is the wideband signal from the satellite receiver. It includes the signals for both video and audio and should extend to at least 7.5 MHz to insure proper reception of the subcarriers.

BILLBOARD

This is the screen display within Sneak Prevue which shows the titles, times, and channel numbers for upcoming features.

BLASTOFF

All of the data for each of PREVUE's customers is sent a minimum of twice daily. This data is sent from PREVUE's mainframe computer in the form of a batch file. This process requires several hours and is called the "blastoff".

BUMPER

This is a full screen, full motion video segment which is a collection of several program highlights to attract the viewers attention. (generally 30 seconds long).

CAV (Constant Angular Velocity)

This describes a method of playing a LaserDisc and dictates how the information must be pressed on the LaserDisc. Constant Angular Velocity describes the manner the Disc behaves in the player. Thus the LaserDisc is rotated at a constant speed.

CAV is currently limited to 30 minutes of video information per side of a 12 inch disc.

CHANNEL LINEUP

This provides the control unit with the information for the program source versus the channel numbers for each period of the day, and day of the week. For example, Cable Video Store may be on your channel 16 from 7:00 pm to 1:00 am Monday through Friday and then on continuously on Saturday and Sunday.

CLV (Constant Linear Velocity)

This describes a method of playing a LaserDisc and dictates how the information must be pressed on the LaserDisc. Constant Liner Velocity describes the manner the disc behaves in the player. The rotation of the disc is controlled so the speed past the pick up assembly is constant. This enhances the record time so one hour of video can be recorded per side of a 12 inch disc.

DEMOD

Within the Sneak Prevue CONTROL UNIT are two adapters for demodulating subcarriers on the baseband. One adapter can demodulate audio subcarriers on 5.895 MHz (background companioned audio), 6.2 MHz and 6.8 MHz for wideband audio. The other adapter contains DFSK data demodulators on 5.98125 MHz (2400 baud) and 5.96625 MHz (110 baud) subcarriers.

DISC DIRECTORY

Generically this is the table of contents of a disc and describes the files on a disc. For the LaserDisc, an identification is pressed on the disc at the time of manufacture. A disc directory describing the clips on that disc and their frame locations is down loaded to the SPCU.

FREQUENCY SHIFT KEYING (FSK OR DFSK)

This is a method of encoding a digital data stream for transmission. It uses two frequencies and alternates between them for the binary one's/zero's.

GENERIC CLIP

When no specific video is available or can be shown because of rating a generic clip may be produced to represent the programming information being provided.

GENLOCK

This video adapter is installed into a dedicated socket in the Sneak Prevue Control Unit on the right hand side, with the front of the unit towards you. The card combines the RGB output of the SPCU with an incoming NTSC signal to form a composite NTSC signal out. The NTSC signal out can come from the SPCU, the external video source (LaserDisc), or an overlay combination of both.

GEOSYNCHRONOUS SATELLITE

A satellite that travels around the earth in exactly the earth's rotation time; therefore, appearing to stand still from the earth's surface.

LASERDISC

This is a plastic 12 inch disc containing video and audio information. It may be recorded on one or both sides.

NTSC

National Television System Committee System. This defines the monochrome compatible composite color television signal used throughout the USA.

OPEN ARCHITECTURE

This is a generic term which indicates the ability to expand and be versatile enough to adapt to new requirements. Every phase of the Sneak Prevue service is designed to be open architecture.

ORDER INFORMATION PAGE

Two pages of text information can be displayed currently by the Sneak Prevue service which can be used to describe in detail the procedure for ordering pay per view.

POD

A group of video segments always shown in the same order. The Sneak Prevue service provides totally random access to video clips eliminating the concept of pod rotation.

PROGRAM CLIP

This is a 30 second view of an upcoming feature on pay per view.

PROGRAMMER

A source of programming information (e.g. HBO)

RAMCARD

This is a memory card which is installed into the SPCU to provide an additional 3 MegaBytes of Random Access Memory.

REEL TALK/SNEAK FEATURE

This is an in-depth, "behind the scenes", look at a pay per view feature. Generally 2 minutes in length.

SCRIPT

This is the set of instructions which tell the SPCU what order to play the video on the LaserDisc. For example:

- 3-Promos
- Billboard
- Reeltalk
- 3-Promos
- Order Information
- Billboard

SCRIPTED OBJECT

This is an element of the Sneak Prevue service. This can be a Billboard, Reeltalk, Promo, Order Information, Billboard, and others.

SEEK TIME

The time required for a LaserDisc to find a new position on the disc and begin playing.

SEGMENT

This is a complete video including all the fades, overlays, and video effects.

SELECT CODE

Stored on df1 disk of the control unit is a unique identifier which allows the broadcast of the data information to be uniquely received and interpreted by your control unit.

SNEAK PREVUE CONTROL UNIT (SPCU)

This is a fully assembled and tested control unit provided by Prevue Networks to all subscribers. It provides all of the demodulation, data storage, LaserDisc Control, character generation necessary for Sneak Prevue service. It is based on an AMIGA 2000 chassis.

SOURCE

A source is a programmer which provides video services. This may be HBO, Cable Video Store, etc.

SUBCARRIER

Transmission of information on a frequency other than what is decoded by the principle demodulator. For audio the channels need an additional stage of heterodyning to recover the audio and for DFSK it requires specially tuned demodulators.

TRANSMISSION

This is a general term generally referring to sending a complete set of information needed for the SPCU to operate correctly.

TRANSPONDER

Each satellite contains several receiver/transmitters. These are leased by the satellite owners to different programmers. Each receiver/transmitter combination is referred to as a transponder.

UPLINK

This is the transmitting station which transmits to the satellite. For Prevue Networks this is currently the Chicago International Teleport (CIT) which is owned and operated by United Video Inc.

VIDEO INSERTION

A technique supported by Sneak Prevue for broadcasting locally produced video tapes. These tapes can be used to promote local/regional events, your cable company or other revenue producing advertising.

Chapter 1 - Introduction

Overview

Sneak Prevue is a customized, open architecture, satellite updated Pay-Per-View promotional service. Prevue Networks, Inc. provides Sneak Prevue as a service to its customers and is constantly improving and updating the service based on customer participation of the product's design.

Prevue Networks is proud of its customer service reputation. To ensure a product with mutually profitable rewards would be delivered, a user's group consisting of cable MSO's was formed. This user's group designed the product, as is currently delivered, with both the cable operators and the end user look in mind. After this functional look was conceived, PREVUE Engineering developed the product to meet these requirements. The user group is still active and if you are interested in participating, contact your PREVUE Affiliate Sales representative.

The Sneak Prevue service provides your cable company with all the hardware (except satellite receiver and special options) needed to begin the service. This includes:

- a Control Unit (which includes the data demodulators)
- the LaserDisc Player
- custom cables
- delivery of LaserDiscs on a periodic basis

NOTE: It is important to work closely with your Sales Representative to insure the accuracy of all the information pertaining to your cable system. The Sneak Prevue system is very flexible and is customized via your own channel lineup, order information, and other text screens.

Technical Service / Customer Service Information

Prevue Networks provides a 24 hour 1-800 hotline to insure your success. This number is provided to you as a cable operator. From this number you can ask for Technical Service, Text Production (for customized information), or your Affiliate Representative.

The number is:

800 447-7388

IMPORTANT! Please help keep the hotline number confidential from your cable viewers so we can better serve your needs.

Thank you for choosing Prevue Networks, Inc. to supply your program promotional requirements.

Chapter 2 - Theory of Operation

Delivery of Video and Data

Shown below, Figures 1 and 2 illustrate the delivery of Video and Data from the Prevue uplink facility to your cable system.

Delivery with Sneak Prevue only



Figure 2-1 — Delivery with Sneak Prevue only



Delivery with Sneak Prevue and Prevue Channel

Figure 2-2 — Delivery with Sneak Prevue and Prevue Channel

The video and data information consists of:

- the daily schedule of programs for each of the Pay Per View program sources which are kept in a master database in Tulsa, Oklahoma.
- each cable system's unique programming and data which includes a channel lineup, customized order information, two screens of generic information (specific directions on how to order), a top banner line, and a set of configuration flags.

This information is sent each day on a communication link via Galaxy 5, Transponder 7, to the Sneak Prevue Control Unit located at each cable headend.

Each Control Unit saves this data on floppy disks in case of power failures or other interruptions. This data is sent daily on the communication link as a "blast off."

The communication link is then utilized to provide real time updates to cable companies which may be doing new installations or require data transmissions due to failure during the "blast off."

Sneak Prevue Control Unit (SPCU)

The Sneak Prevue Control Unit (SPCU) has two functions:

- 1. It acts as an interface and controller between the satellite receiver and the LaserDisc player.
- 2. It acts as a titler character generator and overlays text/graphics on screen as the video spots are being displayed.

Each Sneak Prevue unit is addressed with specific data for that particular cable system and a master script file. From this data and master script file, a play script file is generated in the SPCU computer.

The play script controls the LaserDisc player, and by using random access, promotes those movies, etc. being shown in that system.

As the video spots are played, the SPCU overlays text relating to that specific video spot.

The result is a system specific Pay-Per-View barker service that can be edited daily with new data via satellite.

SPCU Disc Files

Listed below are separate disc files on the control unit which support the operation of the system.

Configuration Flags

On the control unit disk df1: is a file "config.dat" which contains these flags.

These flags relate to time zone, forward display window, enable video insertion, etc. Each of these flags are set in coordination with your PREVUE sales representative and are sent in each blast off.

Channel Lineup

Also sent is your unique channel lineup. This provides the control unit with the information as to your program source versus your channel numbers for each period of the day and day of the week.

For example, Cable Video Store may be on your channel 16 from 7:00 pm to 1:00 am, Monday through Friday and then on 24 hours a day Saturday and Sunday. You will need to provide your PREVUE sales representative with your unique channel lineup.

Located on the df1: disk of the control unit, is a family of files in a coded format, labeled CLUxxx.DAT. The xxx corresponds to a unique Julian day to the system. The following information is displayed when typing one of these file names:

- a coded program source code
- the channel number
- the program source

Programming Information

Also stored on the df1 disk of the control unit is the precise programming information for each time slot during the day for each source. This is separated by source names in the disk file (eg. *HBO), and then followed by each of the titles

including ratings and duration. The time of each program is coded into time slots (1-48) to indicate on which 1/2 hour boundary the program starts. If it is not precisely on the 1/2 hour, a time is included as the first parameter.

Select Code

Stored on the df1 disk of the control unit is a unique identifier which allows the broadcast of the data information to be uniquely received and interpreted by your control unit. The select code is 6 characters long generally in the format SL2015. This select code is displayed on the diagnostics screen which can be accessed by pressing ESC on the keyboard.

Script

A master script is created with each new laserdisc release. This script, in addition to your system's specific program information, is the key to the playback mode of the LaserDisc unit.

Customized Order Information

This order information refers to your system's specific phone numbers, pricing, special ordering instructions, event codes, etc. All this information is transmitted daily and stored in memory in the SPCU.

LaserDisc Directory

Each LaserDisc has a coded internal label that relates to the Julian date that the video is scheduled to air on. This directory is also downloaded to the SPCU and saved as the disk directory file.

LaserDisc Video

LaserDiscs will be produced by Prevue Networks and sent to each cable headend on a scheduled basis. The control unit reads the coded internal label from the LaserDisc and then uses the correct LaserDisc directory to play the disc according to the script. The system will continue to promote features until the programming information indicates there are no longer any matches between the LaserDisc directory and the actual programs airing. This allows for a LaserDisc to continue to be utilized after its expiration date. It is recommended, to promote as many titles as possible, that the LaserDisc be changed as soon as is possible after the expiration date. The LaserDisc will be labeled with the prime time period for use of that disc.

Chapter 3 - Installation

Hardware Installation

Pre-installation Checklist

Please refer to the following checklist before installation:

- Check for visible damage to equipment that may have occurred during shipment.
- Take computer casing off and reseat all internal boards.
- Check voltage levels of satellite receiver for 1 volt peak to peak composite base band.
- Check for two 3-1/2" Main System Disks labeled "DF0 RIGHT DRIVE".
- Check for two 3-1/2" Data Disks labeled "DF1 LEFT DRIVE".
- Verify select code of software and control unit are the same. The select code will be in black ink on the back of your computer and written on the 3-1/2" DF1 disks that came with the computer.
- If possible, power the Control Unit and Laser Player through a Surge Protector or UPS.

System Supplied Equipment

- Galaxy 5 antenna feed
- Satellite Receiver
- Channel Modulator
- Color Video monitor
- Video and audio cables
- Video Insertion Unit (optional Channelmatic with VTR)

Sneak Prevue Supplied Equipment

- Sneak Prevue Control Unit with:
 - CPU with 1 MB memory
 - 2 MB memory card
 - Keyboard with tray
 - Internal subcarrier data demods
 - Internal genlock interface
 - 2 ea. floppy drives
- LaserDisc LD-V8000 Player
- 1-3/4 " Rack Spacer (for use under LaserDisc Player)
- Misc. Cables

Dimensions, Power and Environmental Requirements

The Sneak Prevue Control Unit (SPCU), and the LaserDisc Player can all be rack mounted in a standard 19 inch rack as they are equipped with rack mount hardware. The dimensions and power and environmental requirements of each are:

Unit	Size	Power	Environmental
SPCU	Width 17 1/2" Depth 16" Height 8 3/4" Weight 35 Lbs.	120 Vac 200 W. max.	Temperature: 32-120° F., 0-55° C. Humidity: Non-condensing
LaserDisc Player	Width 16 1/2" Depth 18" Height 5 1/2" Weight 33 Lbs.	120 Vac. 100 W. max.	Temperature: 32-120° F., 0-55° C. Humidity: Non-condensing Dust free

Suggested Hardware Mounting

Install the Sneak Prevue Control Unit (SPCU) in a position in your rack so that it is table top height for ease of access to the keyboard.

Mount the LaserDisc Player above the SPCU for ease of access. Included with the SPCU is a 1 3/4" rack spacer. The recommended mounting for the LaserDisc Player to allow for proper air circulation is with one spacer below the disc player.

Important! At least 1 3/4 inches of air clearance must be allowed below the LaserDisc player for proper air circulation!



Figure 3-1 — Suggested Hardware Mounting

We also recommend all equipment be on surge protection or un-interruptible power supply (UPS) to eliminate the possibility of electrical damage to the equipment.

Cable Installation

Once the equipment is mounted and mechanically secure, begin the interconnection of cables. First, insure that the power switches on both the SPCU (located near the power cable on the back of the unit) and the LaserDisc Player (located on the front in the lower right hand corner) are in the off position.

Warning! Never install or remove cables while the power switches are on. Be sure to turn off the power to all equipment before any cables are installed or removed.

The cable installation procedures are listed by the following system configuration types:

- Version 5 type Control Unit Sneak Prevue Setup from Satellite Receiver
- Version 5 type Control Unit Sneak Prevue and Prevue Channel Setup from Satellite Receiver
- Version 6 type Control Unit Sneak Prevue Setup from Satellite Receiver
- Version 6 type Control Unit Sneak Prevue and Prevue Channel Setup from Satellite Receiver

Refer to the control units pictured below to identify the version type for your system.



Figure 3-2 — Version 5 type Control Unit



Note: Version 6 type Control Unit has two additional Serial Data Ports located in the center of the unit.

Please review the back of the Sneak Prevue Control Unit to determine which model you have and which connections to use. Once you have determined the Version type for your Control Unit, follow the appropriate instructions to install the cables.

Version 5 type Control Unit with Sneak Prevue Setup

Before you begin the following cable installation procedures, verify the following:

- all equipment has been powered off
- the Version type for your Sneak Prevue Control Unit

Important! Use this procedure only if you have a Version 5 type Control Unit and are using the Sneak Prevue setup from one satellite receiver.



to cable distribution system

Figure 3-4 — Version 5 type Control Unit - Sneak Prevue Setup from Satellite Receiver

Cable 1

Prevue supplied

Serial data cable - data from SPCU **25 pin serial port** to **9 pin data connector** on the SPCU demodulator adapter.

Cable 2

LaserDisc Control cable - data from SPCU **round din data connector** to the **15** pin **connector** on the back of the LaserDisc Player.

Cable 3

Video Out cable- Connect the video cable from the video output (V1) of the LaserDisc unit to the Laser Video input of the SPCU (The upper left BNC connector located towards the top of the unit).

Cable 4

Audio Output cable- Connect the **audio out (1L**) of the LaserDisc unit to the **audio input** of the channel modulator.

Cable 5

SPCU Video Out Cable- Connect the **Program Video output** of the SPCU (The BNC located towards the bottom of the unit on the genlock adapter) to the **video input** of the channel modulator.

Cable 6

Baseband in Cable - The **composite baseband out** from the satellite receiver will be connected to the **baseband input** on the SPCU. This baseband includes carriers beyond normal video and audio.

Cable 7

The Sneak Prevue Control Unit (SPCU) baseband may be looped to another SPCU through the **b.b.loop**. Otherwise, **b.b.loop** should be 75 Ohm terminated.

Cable Verification

With equipment installed and cabled properly and the video/audio output of the SPCU going direct to a video monitor, verify the Satellite Receiver is powered up and tuned to the Prevue Channel satellite feed:

- Galaxy 5, Transponder 7
- Horizontal polarization
- with 1 volt peak to peak output level on the receiver.

LaserDisc Player Powerup

- 1. Power up the LaserDisc unit.
- 2. Press the open/close button on the front of the LaserDisc Player and place the LaserDisc shipped with the unit onto the disc tray (See Chapter 4, LaserDisc Player Operation).

Note: Side 2 goes down.

3. Press the open/close button again to close the tray.

There are still a number of steps to complete before playback can begin. We need to first have data transmitted to the SPCU to initiate it and configure the display format.

Completion of Hardware Installation

Once the equipment and cables are installed and verified, proceed to the "Software Installation" section located in Chapter 3.

Version 5 type Control Unit with Sneak Prevue and Prevue Channel Setup

Before you begin the following cable installation procedures, verify the following:

- all equipment has been powered off
- the Version type for your Sneak Prevue Control Unit

Important! Use this procedure only if you have a Version 5 type Control Unit and are using the Sneak Prevue and Prevue Channel setup from one satellite receiver.



Figure 3-5 — *Version 5 type Control Unit - Sneak Prevue and Prevue Channel Setup from Satellite Receiver*

Cable 1

Prevue supplied

Serial data cable - data from SPCU **25 pin serial port** to **9 pin data connector** on the SPCU demodulator adapter.

Cable 2

LaserDisc Control cable - data from SPCU round din data connector to the 15 pin connector on the back of the LaserDisc Player.

Cable 3

Video Out cable- Connect the video cable from the **video output (V1)** of the LaserDisc unit to the **Laser Video input** of the SPCU (The upper left BNC connector located towards the top of the unit).

Cable 4

Audio Output cable- Connect the **audio out (1L)** of the LaserDisc unit to the **audio input** of the channel modulator.

Cable 5

SPCU Video Out Cable- Connect the **Program Video output** of the SPCU (The BNC located towards the bottom of the unit on the genlock adapter) to the **video input** of the channel modulator.

Cable 6

Baseband in Cable - The **baseband in** is looped from the SPCU to the **baseband loop** on the Prevue Channel Control Unit.

Cable 7

Connect the **video out** from satellite receiver to the Prevue Channel Control Unit **video in**.

Cable 8

Connect the **composite b.band out** from satellite receiver to the **b.b in** on the Prevue Channel Control Unit.

Cable 9

The Sneak Prevue Control Unit (SPCU) baseband may be looped to another SPCU through the **b.b.loop**. Otherwise, **b.b.loop** should be 75 Ohm terminated.

Cable Verification

With equipment installed and cabled properly and the video/audio output of the SPCU going direct to a video monitor, verify the Satellite Receiver is powered up and tuned to the Prevue Channel satellite feed:

- Galaxy 5, Transponder 7
- Horizontal polarization
- with 1 volt peak to peak output level on the receiver.

LaserDisc Player Powerup

- 1. Power up the LaserDisc unit.
- 2. Press the open/close button on the front of the LaserDisc Player and place the LaserDisc shipped with the unit onto the disc tray (See Chapter 4, LaserDisc Player Operation).

Note: Side 2 goes down.

3. Press the open/close button again to close the tray.

There are still a number of steps to complete before playback can begin. We need to first have data transmitted to the SPCU to initiate it and configure the display format.

Completion of Hardware Installation

Once the equipment and cables are installed and verified, proceed to the "Software Installation" section located in Chapter 3.

Version 6 type Control Unit with Sneak Prevue Setup

Before you begin the following cable installation procedures, verify the following:

- all equipment has been powered off
- the Version type for your Sneak Prevue Control Unit

Important! Use this procedure only if you have a Version 6 type Control Unit and are using the Sneak Prevue setup from one satellite receiver.



Figure 3-6 — Version 6 type Control Unit - Sneak Prevue Setup from Satellite Receiver

Note: Version 6 is a new hardware release effective 6/15/93. It uses a new data communications card that provides additional ports used with other Prevue related services. Sneak Prevue <u>only</u> uses the 9 pin connector labeled "LaserDisc Control".

Cable 1

Prevue supplied

Serial data cable - data from SPCU **25 pin serial port** to **9 pin data connector** on the SPCU demodulator adapter.

Cable 2

LaserDisc Control cable - data from SPCU **9 pin serial data connector** (LaserDisc Control) to the **15 pin connector** on the back of the LaserDisc Player.

Cable 3

Video Out cable- Connect the video cable from the video output (V1) of the LaserDisc unit to the Laser Video input of the SPCU (The upper left BNC connector located towards the top of the unit).

Cable 4

Audio Output cable- Connect the **audio out (1L)** of the LaserDisc unit to the **audio input** of the channel modulator.

Cable 5

SPCU Video Out Cable- Connect the **Program Video output** of the SPCU (The BNC located towards the bottom of the unit on the genlock adapter) to the **video input** of the channel modulator.

Cable 6

Baseband in Cable - The **composite baseband out** from the satellite receiver will be connected to the **baseband input** on the demodulator adapter. This baseband includes carriers beyond normal video and audio.

Cable 7

The Sneak Prevue Control Unit (SPCU) baseband may be looped to another SPCU through the **b.b.loop**. Otherwise, **b.b.loop** should be 75 Ohm terminated.

Cable Verification

With equipment installed and cabled properly and the video/audio output of the SPCU going direct to a video monitor, verify the Satellite Receiver is powered up and tuned to the Prevue Channel satellite feed:

- Galaxy 5, Transponder 7
- Horizontal polarization
- with 1 volt peak to peak output level on the receiver.

LaserDisc Player Powerup

- 1. Power up the LaserDisc unit.
- 2. Press the open/close button on the front of the LaserDisc Player and place the LaserDisc shipped with the unit onto the disc tray (See Chapter 4, LaserDisc Player Operation).

Note: Side 2 goes down.

3. Press the open/close button again to close the tray.

There are still a number of steps to complete before playback can begin. We need to first have data transmitted to the SPCU to initiate it and configure the display format.

Completion of Hardware Installation

Once the equipment and cables are installed and verified, proceed to the "Software Installation" section located in Chapter 3.

Version 6 type Control Unit with Sneak Prevue and Prevue Channel Setup

Before you begin the following cable installation procedures, verify the following:

- all equipment has been powered off
- the Version type for your Sneak Prevue Control Unit

Important! Use this procedure only if you have a Version 6 type Control Unit and are using the Sneak Prevue and Prevue Channel setup from one satellite receiver.





Note: Version 6 is a new hardware release effective 6/15/93. It uses a new data communications card that provides additional ports used with other Prevue related services.

Cable 1

Prevue supplied

Serial data cable - data from SPCU **25** pin serial port to **9** pin data connector on the SPCU demodulator adapter.

Cable 2

LaserDisc Control cable - data from SPCU **9 pin serial data connector** (LaserDisc Control) to the **15 pin connector** on the back of the LaserDisc Player.

Cable 3

Video Out cable- Connect the video cable from the **video output (V1)** of the LaserDisc unit to the **Laser Video input** of the SPCU (The upper left BNC connector located towards the top of the unit).

Cable 4

Audio Output cable- Connect the **audio out (1L)** of the LaserDisc unit to the **audio input** of the channel modulator.

Cable 5

SPCU Video Out Cable- Connect the **Program Video output** of the SPCU (The BNC located towards the bottom of the unit on the genlock adapter) to the **audio input** of the channel modulator.

Cable 6

Baseband in Cable - The **baseband in** is looped from the SPCU to the **baseband loop** on the Prevue Channel Control Unit.

Cable 7

Connect **video out** on satellite receiver to **video in** on the Prevue Channel Control Unit.

Cable 8

Connect **composite baseband out** on satellite reciever to **b.b** in on the Prevue Channel Control Unit.

Cable 9

The Sneak Prevue Control Unit (SPCU) baseband may be looped to another SPCU through the **b.b.loop**. Otherwise, **b.b.loop** should be 75 Ohm terminated.

Cable Verification

With equipment installed and cabled properly and the video/audio output of the SPCU going direct to a video monitor, verify the Satellite Receiver is powered up and tuned to the Prevue Channel satellite feed:

- Galaxy 5, Transponder 7
- Horizontal polarization
- with 1 volt peak to peak output level on the receiver.

LaserDisc Player Powerup

- 1. Power up the LaserDisc unit.
- 2. Press the open/close button on the front of the LaserDisc Player and place the LaserDisc shipped with the unit onto the disc tray (See Chapter 4, LaserDisc Player Operation).

Note: Side 2 goes down.

3. Press the open/close button again to close the tray.

There are still a number of steps to complete before playback can begin. We need to first have data transmitted to the SPCU to initiate it and configure the display format.

he disk to play from beginning to end and then lock up.

Completion of Hardware Installation

Once the equipment and cables are installed and verified, proceed to the "Software Installation" section located in Chapter 3.

Software Installation

Sneak Prevue utilizes two disks in the Sneak Prevue Control unit to operate. These are 3 1/2 inch hard-covered floppy discs.

Sneak Prevue Main System Disk

The Sneak Prevue Main System Disk contains:

- the boot-up routine
- the operating system
- all executable software

It is generic to all Sneak Prevue units as there is nothing system specific on this disk.

The Sneak Prevue Main System Disk is installed in the right hand floppy drive, DF0.

Sneak Prevue Data Disk

The Sneak Prevue Data Disk contains system specific data such as:

- the system select code
- master script
- play script
- channel lineup
- program information

The data disk is a non-bootable disk. That is, it will not boot without the main system disk in DF0.

The Sneak Prevue Data Disk is installed in the left hand floppy drive, DF1.
Software Bootup

- 1. The Sneak Prevue Control unit should be powered off.
- 2. Check the disks to make sure they <u>are not write protected</u>. You should not be able to see through the small window on the disk. If it is open, the disk is write protected and should be closed.
- 3. Insert the Sneak Prevue Main System Disk in DF0, the right drive
- 4. Insert the Sneak Prevue Data Disk in DF1, the left drive
- 5. Power up the Sneak Prevue Control unit. This will initiate a bootup routine which should take approximately 60 seconds. The disk activity LED's will flash as the operating software is loaded.

Warning! An error message will appear on the screen if cables are not properly installed or if a component is not powered up or connected properly. If this happens, please contact Prevue Technical Services. **800 447-7388**

A message will soon appear in a banner on the top of the screen indicating the unit is "Loading Local data ...".

A Stand-by screen displays the next message indicating "E07".

Note: Refer to Appendix A for a complete listing of error codes and messages.

The units specific address code will appear in the error message box at the bottom of the screen. (Example: SL2015) Disregard this message for now and follow the steps outlined on the following page, "Receiving Program Information".

Receiving Program Information

The following steps will instruct you:

- in setting up and receiving program information to be displayed on screen
- how to receive the script needed to configure the SPCU so the LaserDisc is in a proper playback format

All of the screens are menu driven for ease of operation.

Note: For a complete listing and explanation of all menu selections and information contained in the Customer Diagnostics screens, refer to Chapter 4 - Sneak Prevue Control Unit Operation.

Follow the procedure outlined below to receive program information for the operation of your Sneak Prevue Control Unit and LaserDisc Player.

1. Press ESC (escape) to access the **Customer Diagnostics** screen, also referred to as the *main menu*. The following screen is displayed:



Figure 3-8 — Customer Diagnostics screen

2. Highlight **Data**, then press RETURN. The **Data Diagnostics** screen is displayed.

	Errors:	Cmnds:	Bytes:	Box	is off
Sat Data:	26	8125	3085	Cnt:	13
Mod Data:	0	0	0	Max:	31481
Version	CLU) (PI) (0) (0	Configu	ration
Software:	N95065	e			
Script:	95166 V	/er16 6/19/	199414:2	5	
PFG:	S95135				
Types:	S95135				
Segs:	S95135		PODS:	S9513	5
Regions:	S95096		Premiers	s: 95156	6
_					

Figure 3-9 — Data Diagnostics menu

Using the SPACE BAR, highlight each menu option to get a better feel for the operation of the keyboard. As you highlight each option, note that information pertaining to the function is displayed on screen.

3. Highlight the CLU (channel lineup) option.

Er	rors:	Cmnd	s: B	ytes:	Box	is off	
Sat Data: Mod Data:	26 0	812	25 0	3085 0	Cnt: Max:	1 3148	13 31
Version	CLU) (Pl) (0) (onfig	uratic	n)
FILEDATE	2b	2c	2d	2e	2f	30	31
JDATE	171	172	173	174	175	176	177
SOURCES	14	14	14	14	14	14	14
Press SPACE BAR to select diagnostic Press ESC to return to main menu							

Figure 3-10 — Data Diagnostics - CLU

A string of alpha/numeric characters will appear next to "FILEDATE" and "JDATE". The JDATE listing represents the Julian date for the current channel lineup information.

4. Next, review the Satellite Data information on the top portion of the screen.

	Data D	Diag	nosi	tics	for	SL2	326		
Satellite Data Information: Errors Commands Bytes	En Sat Data: Mod Data: Version	rors: 26 0 CLU	Cmnd 812	s: By 25 0 OI	ytes: 3085 0 C	Box Cnt: Max: onfig	is off 3148 uratic	13 81 on	data indicato "Box is off / on" message
	FILEDATE	2b	2c	2d	2e	2f	30	31	
	JDATE	171	172	173	174	175	176	177	
	SOURCES	14	14	14	14	14	14	14	
	Press S Pres	SPACE s ESC	BAR t to retu	o sele Irn to I	ct diag main m	nostic	:		



- The satellite data reception needs to be verified before continuing. ٠ This data is decoded in the Sneak Prevue Control unit from the satellite baseband. This is critical to the operation of the Sneak Prevue unit.
- Observe the "Errors", "Cmnds", and "Bytes" information ٠ displayed on the "Sat Data" line. The "Bytes" counter should be advancing occasionally (may be stopped for several minutes during daytime hours). This indicates that data is flowing on the Prevue data subcarrier and the unit is recognizing the data.
- A data indicator will flash as data is transmitted. This data ٠ indicator appears as a small square dot at the end of the "Box is off/on" message line.
- If the "Bytes" counter does not advance after a few minutes, check ٠ the composite baseband input connector on the rear of the SPCU, or call Prevue Technical Services for assistance at 800 447-7388.

- 5. Once Satellite data input is verified, your Sneak Prevue Control Unit is ready for a data transmission.
 - Call 800 447-7388 and ask for Prevue Technical Services.
 - Identify your system, location, and tell the technician you are setup and ready to activate the Sneak Prevue unit.
 - Data files will be transmitted to your select code.
 - Once the transmissions begin, you will notice the satellite data "Cmnds" and "Bytes" counters advancing.
 - The "Box is on" message on the top right corner of the diagnostic screen will also appear. This indicates your select code is being addressed and the unit is receiving data.
 - After the unit receives all transmission files, the system will begin to operate automatically.

Chapter 4 - Customer Diagnostics

Introduction

Customer Diagnostics provides tools for viewing vital information about your Sneak Prevue system, as well as performing data and hardware diagnostic tests. Used with the assistance of Prevue Technical Service, Customer Diagnostics can aid in trouble shooting and resolving problems.

The Customer Diagnostics menu contains three main selection icons. They are:

- 1. Data
- 2. Hardware
- 3. Manual Data Saves

Data

The Data selection provides information such as *Channel Line Up*, *Program* and *Order Information*, as well as the current *Version* and *Configuration* for Sneak Prevue.

Hardware

The Hardware selection provides various diagnostic tests for the hardware components including the LaserDisc Player and the Sneak Prevue Control Unit. Error statistics and logs are also provided to assist Prevue Technical Service in resolving problems when they occur.

Manual Data Saves

This selection provides options to save the program, scripts and system error log to disk.

Customer Diagnostics Menu

The Customer Diagnostics menu contains selection icons for accessing both data and hardware information, performing diagnostics and saving data to disk.

In addition to the menu selections, the information displayed on this screen also includes:

- select code for the unit
- version of software
- access information
- instructions for making selections



Figure 4-1 — Customer Diagnostics - Main Menu

The procedures that follow are designed to guide you through Customer Diagnostics and provide explanations for the information displayed on each screen.

Note: The Customer Diagnostics screen may also be referred to as the "Main Menu".

Accessing Customer Diagnostics

To access the Customer Diagnostics menu, follow the procedure listed below.

1. Press ESC (escape). The following screen is displayed with the **Data** selection highlighted. Note the access information listed below the selection icons.



Figure 4-2 — Customer Diagnostics - Data selection

2. Press the SPACE BAR to highlight the **Hardware** selection. The access information listed below the icon selections changes to reflect the Hardware selection.



Figure 4-3 — Customer Diagnostics - Hardware selection

3. Press the SPACE BAR once more to highlight the **Manual Data Saves** selection. Again, note the access information listed below the icon selections.



Figure 4-4 — Customer Diagnostics - Manual Data Saves selection

Data

The Data selection provides several options for displaying information about the Sneak Prevue software program. These options include:

- Versions indicates current software and script versions
- CLU indicates the current <u>C</u>hannel <u>LineUp</u> information
- PI displays a map of <u>Program Information</u>
- OI displays <u>O</u>rder <u>I</u>nformation
- Configuration displays system specific flags (i.e., TZ=Time Zone)
- 1. From the Main Menu, use the SPACE BAR to highlight the **Data** selection, then press RETURN. The following screen is displayed:

	Errors:	Cmnds:	Bytes:	Box	is off
Sat Data:	26	8125	3085	Cnt:	13
Mod Data:	0	0	0	Max:	31481
Version	CLU) (PI) (0) (0	Configu	ration
Software:	N95065	e			
Script:	95166 V	/er16 6/19/	199414:2	5	
PFG:	S95135				
Types:	S95135				
Segs:	S95135		PODS:	S9513	5
Regions:	S95096		Premiers	s: 95150	6



The following table describes the information displayed at the top region of all the "Data Diagnostics" screens.

Field	Description
Errors	This counter displays the number of errors received during data transmission.
Cmnds	This counter displays the number of commands received during data transmission.
Bytes	When this counter is advancing, it indicates data is flowing on the Prevue data subcarrier and the unit is recognizing the data.
Box is on	This message indicates your select code is being addressed and the unit is receiving data.
Box is off	This message indicates the data transmission has completed.
Sat Data	Indicates counters for satellite delivered data.
Mod Data	Indicates counters for modem delivered data.

Version

This selection provides version information for the various programs and scripts provided through diskette, laserdisc or satellite transmission.

1. From the Data Diagnostics menu, press the SPACE BAR to highlight the **Version** selection. The Version information is displayed beneath the selection icons.

	Errors:	Cmnds:	Bytes:	Box	is off
Sat Data:	26	8125	3085	Cnt:	13
Mod Data:	0	0	0	Max:	31481
Version	CLU) (PI) (OI) (C	onfigu	ration
Software:	N95065	e			
Script:	95166 V	'er16 6/19/	199414:28	5	
PFG:	S95135				
Types:	S95135				
Segs:	S95135		PODS:	S9513	5
Regions:	S95096		Premiers	s: 95156	3
Pres	S SPACE	BAR to s	elect diag	nostic	

Figure 4-6 — Data Diagnostics - Version Information

The table below describes the "Version" information displayed on the Data Diagnostics screen.

Field	Description
Software	Identifies the version of Sneak Prevue currently running on the SPCU.
Script	Identifies the version for the current laserdisc release.
PFG	Identifies the current version of Program Format Generator.
Types	Identifies the current version for file types.
Segs	Identifies the current version of Segs.
PODS	Identifies the current version of PODS.
Regions	Identifies the current version for Regions.
Premiers	Identifies the current version of "Premiering Soon" scripts.

CLU

This selection displays Channel Line Up (CLU) information.

1. From the Data Diagnostics menu, press the SPACE BAR to highlight the **CLU** selection. The CLU information is displayed beneath the selection icons.

En	rors:	Cmnd	s: B	ytes:	Box	is off	
Sat Data:	26	812	25	3085	Cnt:	1	13
Mod Data:	0	_	0	0	Max:	3148	31
Version	CLU) (PI)(c	onfig	uratic	on)
FILEDATE	2b	2c	2d	2e	2 f	30	31
JDATE	171	172	173	174	175	176	177
SOURCES	14	14	14	14	14	14	14
Press SPACE BAR to select diagnostic							

Figure 4-7 — Data Diagnostics - CLU Information

The table below describes the "CLU" information displayed on the Data Diagnostics screen.

Field	Description
FILEDATE	Hexadecimal modulus 64 date.
JDATE	Represents the Julian date for the current channel lineup information.
SOURCES	Indicates channel and/or place holder for Pay-Per-View promotion. (i.e., Request)

ΡΙ

This selection provides a graphic illustration of the current Program Information (PI) map.

1. From the Data Diagnostics menu, press the SPACE BAR to highlight the **PI** selection and press RETURN. The Program Information map is displayed beneath the selection icons.



 $\it Figure~4-8-Data~Diagnostics-Program~Information~map$

OI

This selection provides the option to view current or special Order Information (OI).

1. From the Data Diagnostics menu, press the SPACE BAR to highlight the **OI** selection. Viewing instructions are displayed beneath the selection icons.



Figure 4-9 — Data Diagnostics - Order Information

2. Press RETURN to view current Order Information, or press P to view Special Order Information. The Order Information screen of your choice is displayed.



Figure 4-10 — Data Diagnostics - Order Information example

Configuration

Selecting this option provides you with local configuration and clock information.

1. From the Data Diagnostics menu, press the SPACE BAR to highlight the **Configuration** selection. The Configuration information is displayed beneath the selection icons.

Data	Diag	nostic	s for S	SL23	26
	Errors:	Cmnds:	Bytes:	Box	is off
Sat Data:	26	8125	7930	Cnt:	13
Mod Data:	0	0	0	Max:	31481
(Version)	CLU) (PI) (onfigu	ration
Local confi jd:187 cts OWT:5 RC BB_DPC:25	guration :8 TZ:7 :-:2 RC+ :5 VI_D	and some OB:Y D ⊦:2 LV:0 PC:85 AD	© clock sti DST:1 FD LA:1 F:. D_DPC:6	uff :Q KB A	:0
Press SPACE BAR to select diagnostic Press ESC to return to main menu					

Figure 4-11 — Data Diagnostics - Configuration Information

Note: Do not select this option unless Prevue Technical Service has instructed you to do so.

Hardware

The Hardware screen displays information and provides selections for performing diagnostic testing. These selections include:

- Insertion indicates video insertion activation
- Video provides keys for video/audio diagnostics
- Player provides access to Laser Player Diagnostics
- Auto Tests performs system tests for LaserDisc and SPCU operation
- 1. From the Main Menu, use the SPACE BAR to highlight the **Hardware** selection, then press RETURN. The following screen is displayed:

Hardware	Diagnostics
Memory - CHIP: 776296	FAST: 1136488
Comm Card: CBM	ROM Ver: 2.0
Insertion Video	Player Auto Tests
On air is: FALSE	Insertion Flag = Y
Press RETURN to I	Initiate Insertion manually
Press SPACE BAI	R to select diagnostic
Press ESC to re	eturn to main menu

Figure 4-12 — Hardware Diagnostics

The following table describes the information displayed at the top region of several "Hardware Diagnostics" screens.

Field	Description
Memory - CHIP	Memory on motherboard.
Memory - FAST	Memory on RAM board.
Comm Card	Indicates type of communication card installed.

Insertion

This selection displays video insertion information.

1. From the Hardware Diagnostics menu, press the SPACE BAR to highlight the **Insertion** selection. The Insertion information is displayed beneath the selection icons.

Hardware Diagnostics		
Memory - CHIP: 776296 FAST: 1136488 Comm Card: CBM ROM Ver: 2.0		
Insertion Video	Player Auto Tests	
On air is: FALSE Press RETURN to In	Insertion Flag = Y itiate Insertion manually	
Press SPACE BAR to select diagnostic Press ESC to return to main menu		

Figure 4-13 — Hardware Diagnostics - Insertion Information

The table below describes the "Insertion" information displayed on the Hardware Diagnostics screen.

Field	Description
On air is:	TRUE: Insertion is currently active and is playing on air. FALSE: Insertion is not active at this time.
Insertion Flag:	Y=automatic insertion based on selected timing option. N=Not set up for automatic video insertion option.

Video

This option provides several video/audio diagnostics.

1. From the Hardware Diagnostics menu, press the SPACE BAR to highlight the **Video** selection. Several video/audio diagnostic options are displayed beneath the selection icons.



Figure 4-14 — Hardware Diagnostics - Video/Audio

The table below describes the "Video" options displayed on the Hardware Diagnostics screen.

Key	Description
E=External	Displays the current laserdisc video.
I=Internal	Displays the current Hardware Diagnostics screen.
O=Overlay Displays the image of the current laserdisc video over the current Hardware Diagnostics screen.	
1=A1 audio	Plays current audio track from the laserdisc.
2=A2 audio	Not used at this time.

Player

This selection provides several Laser Player Diagnostic options for viewing Stats and Error Logs and performing diagnostic procedures on the LaserDisc Player.

1. From the Hardware Diagnostics menu, press the SPACE BAR to highlight the **Player** selection. Instructions for accessing the Laser Player Diagnostics screen is displayed beneath the selection icons.

Hardware Diagnostics		
Memory - CHIP: 776296 FAST: 1136488 Comm Card: CBM ROM Ver: 2.0		
Insertion Video Player Auto Tests		
Press RETURN for laser player		
diagnostic screen.		
Press SPACE BAR to select diagnostic		
Press ESC to return to main menu		

Figure 4-15 — Hardware Diagnostics - Player Instructions

Laser Player Diagnostics		
Stat	s View Log	Diagnostics
Code	Description C	Count
E00	Communication error	2
E04	Feature not available	10
E06	Missing argument	0
E11	Disc is not loaded	0
E12	Search error	0
	Press SPACE BAR t	o select then
	RETURN to enter	selection.
	Press ESC to return	to main menu

2. Press RETURN to display the Laser Player Diagnostics screen.

Figure 4-16 — Laser Player Diagnostics

Stats

This option displays error codes, descriptions and a count for the number of times each error has occurred.

1. From the Laser Player Diagnostics screen, press the SPACE BAR to highlight the **Stats** selection. Error code information is displayed beneath the selection icons.

Laser Player Diagnostics			
Stat	s View L	.og	Diagnostics
Code	Description	Count	
E00	Communication e	rror	2
E04	Feature not availa	ble	10
E06	Missing argument		0
E11	Disc is not loaded		0
E12	Search error		0
	Press SPACE BA	AR to select t	hen
	RETURN to er	nter selection	
Press ESC to return to main menu			

Figure 4-17 — Laser Player Diagnostics Stats

The table below contains the entire list of error codes and their descriptions.

Code	Description
E00	Communication error
E04	Feature not available
E06	Missing argument
E11	Disc is not loaded
E12	Search error
E13	Defocusing error
E15	Picture stop
E16	Other device input
E99	Unrecoverable error

View Log

This feature allows you to view the current Error Log.

Important! This procedure should only be performed under the direction and supervision of Prevue Technical Service.

1. From the Laser Player Diagnostics screen, press the SPACE BAR to highlight the **View Log** selection. Instructions for accessing the Error Log is displayed beneath the selection icons.

Laser Player Diagnostics		
View Log	Diagnostics	
Press RETURN to view current		
Error Log		
Press SPACE BAR to select then RETURN to enter selection. Press ESC to return to main menu		
	r Player Diag View Log ss RETURN to vie Error Log s SPACE BAR to se ETURN to enter seles s ESC to return to m	

Figure 4-18 — Laser Player - View Log

2. Press RETURN to view the current Error Log. A listing of error occurrences is displayed on the screen.

23:12:52	Timed out starting insertion	
23:24:33	Timed out starting insertion	
23:32:20	Timed out starting insertion	
00:44:01	Timed out starting insertion	
00:54:04	Timed out starting insertion	
00:05:15	Timed out starting insertion	
00:13:47	Timed out starting insertion	
00:25:23	Timed out starting insertion	
00:34:19	Timed out starting insertion	
00:45:18	Timed out starting insertion	
01:13:47	Player error: E04	
01:13:47	From Command: ?? Line: 372	
01:24:25	Timed out starting insertion	
01:32:51	Timed out starting insertion	

Figure 4-19 — Laser Player - Error Log

Diagnostics

This option provides several Laser Player diagnostic tests.

Note: The LaserDisc Player is unavailable for playing Sneak Prevues during the diagnostic testing period. Because these tests may be time consuming, unless you have been advised to do so by Prevue Technical Service, you may want to consider whether or not the diagnostic testing is necessary.

1. From the Laser Player Diagnostics screen, press the SPACE BAR to highlight the **Diagnostics** selection. Instructions for accessing the diagnostic tests is displayed beneath the selection icons.



Figure 4-20 — Laser Player - Diagnostics

2. Press RETURN to select diagnostic tests. The following screen displays the available options. Pressing 1, 2, 3 or 4 activates the test.

Laser Player Diagnostic Menu 1 ... Communications Link Diagnostic 2 ... Random Frame Seek Diagnostic 3 ... Incremental Frame Seek Diagnostic 4 ... Half Scan Frame Seek Diagnostic Press number of test to select Press ESC to return to Sneak Preview

Figure 4-21 — Laser Player - Diagnostic Menu

Auto Tests

This selection performs a quick automatic testing procedure on the LaserDisc and SPCU.

1. From the Hardware Diagnostics menu, press the SPACE BAR to highlight the **Auto Tests** selection. Instructions for performing the tests is displayed beneath the selection icons.

Hardware Diagnostics	
Memory - CHIP: 776296 FAST: 1136488 Comm Card: CBM	
Insertion Video Player Auto Tests	
Press RETURN to auto test LaserDisc and CG operation	
Press SPACE BAR to select diagnostic	
Press ESC to return to main menu	

Figure 4-22 — Hardware Diagnostics - Auto Tests

2. Press RETURN to begin the auto test procedure. The screen goes black for a few seconds and then begins the system testing and initialization process. The entire process takes approximately one minute. When the auto test has completed, Sneak Prevue will resume automatically.

Manual Data Saves

This menu selection provides options for saving data to disk. When selected, two choices are listed:

- All Data saves all local data to disk
- Error Log saves the system error log to disk file df1:err.dat

To access the options contained in the **Manual Data Saves** selection, follow the procedure listed below.

1. From the Main Menu, use the SPACE BAR to highlight the **Manual Data Saves** icon, then press RETURN. The following screen is displayed:

Save Data Manually		
All Data	Error log	
Press RETURN to save all local		
data to disk		
Press SPACE BAR to select then RETURN to enter selection. Press ESC to return to main menu		

Figure 4-23 — Save Data Manually

All Data

To save all local data to disk, follow the procedure listed below.

1. From the "Save Data Manually" menu, press the SPACE BAR to highlight **All Data**.

Save Data Manually		
All Data	Error log	
Press RETURN to save all local		
Pross SPACE BAD	? to select then	
RETURN to enter selection. Press ESC to return to main menu		

Figure 4-24 — Save Data Manually - All Data

2. Make sure a diskette is loaded in drive df1. Press RETURN to begin saving data. The following screen is displayed.



Figure 4-25 — Save Data Manually - confirmation screen.

Error Log

To save the system error log to disk file df1:err.dat, follow the procedure listed below.

1. From the "Save Data Manually" menu, press the SPACE BAR to highlight **Error Log**.

Save Data Manually		
All Data	Error log	
Save the system error log to		
disk file df1:err.dat		
Press SPACE BAR to select then RETURN to enter selection. Press ESC to return to main menu		

Figure 4-26 — Save Data Manually - Error Log

2. The file will be saved to drive DF1 (left drive). Press RETURN to begin saving data. The following screen is displayed.



Figure 4-27 — Save Data Manually - confirmation screen.

Chapter 5 - LaserDisc Player Operation

Introduction

The LaserDisc is completely controlled by the SPCU. Therefore, it is not necessary to use any of the panel buttons on the player except the "Open/Close" button. However, we suggest you review the section titled "LaserDisc Player Panel Facilities", located in this chapter, to become familiar with the operation of the player.

Disc Handling Precautions

The shiny side of the disc contains the information which will be read by the laser scanner inside the disc player. Therefore, it is important to keep this surface as clean as possible and handle them with care.

Handling The Discs

When handling the discs try not to touch the playing surfaces. This is best accomplished by holding the disc by both hands on the edges or in one hand by placing the fingers in the middle and the thumb on the outside.

Holding with both hands

Hold the disc by its edges with both hands, as shown below.

Figure 4-2 — Holding with both hands...

Holding with one hand

As shown below, hold the disc by its center hold and one edge..

Figure 4-3 — Holding with one hand...

Cleaning The Discs

The presence of fingerprints or other minor dust on the disc will not directly affect the recorded signal. Nevertheless, dirt on the disc will cause the brightness of the light reflected from the surface of the disc to be reduced, which may cause a degrading of both picture and sound quality. If a disc is dirty it should be cleaned before use.

Clean the discs with a soft clean cloth to wipe the playing surface. If necessary the soft cloth can be moistened with water and a neutral detergent to remove stubborn dirt. Always wipe from inside of the disc towards the outer perimeter. Don't wipe in a circular direction.

Figure 4-4 — Cleaning the laser disc

Warning! Discs may <u>not</u> be cleaned with record cleaning sprays, or static prevention sprays etc. Do not use volatile liquids such as benzene, alcohol, thinner, freon, etc.

Warped Discs

Never place a disc that is cracked, scratched or warped into the disc player. The disc revolves at a high speed when it is played and a defective disc can damage the player.

Figure 4-5 —Cracked or warped discs

Disc Operation

Follow the procedure below to properly load the disc into the laserdisc player.

- 1. Turn on your monitor TV power switch.
- 2. Turn on the player's POWER switch.
- 3. Press the OPEN/CLOSE button (n / s).

The disc table will be extended from the player.

4. Set the disc on the disc table.

Note: Only one disc should be inserted at a time.

5. Press the OPEN/CLOSE button (n / s).

The disc table will close.

Important! Moisture will form in the operating sections of the player and the player's performance will be impaired if the player is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. To prevent this, let the player stand in its new surroundings for about an hour before switching it on, or ensure that the room temperature rises gradually.

LaserDisc Player Panel Facilities

Front Panel Facilities



Feature	Description
DISC TABLE	When power is switched on, and OPEN/CLOSE button is pressed, the disc table is expelled outward.
DISPLAY button	This button is used to display or erase chapter number and frame numbers on the TV screen.
	When the power is turned ON with this button pressed, the function switches to setting mode.
	Note: During CLV disc playback, elapsed time numbers will be displayed in place of frame numbers.
	When only the DISPLAY button is pressed, the display appears and reappears alternately each time the button is pressed.
EXT CONT terminal (stereo miniature phone jack)	A terminal for connecting a separately sold remote control unit RU-V6000.
F 5)	To be connected when using the optional bar code reader UC-V104BC in the wired mode.
	This feature is not currently being used.
KEY LOCK indicator	Lit when the KEY LOCK command is entered from the external control unit.
	When this indicator is lit, entries are not accepted from the operation keys other than the power switch. Also, entries are not accepted from the operation keys of the separately sold remote control unit.
	This feature is not currently being used.
OPEN/CLOSE (n / s) button	This button is used to open and close the disc table. Setting a disc on the disc table then pressing this button retracts the disc table into the player. Pressing this button during play stops play. When pressed again, the table will be extended from the player.
PARK Indicator	Indicates that the pickup is at the park position (extreme inner circumference) and in standby status.
	Blinks during opening/closing operation of the disc table, and goes off when opening/closing is completed. It lights up when a disc exists in the player.
PLAY (▷) button	This button activates the playback operation.
PLAY indicator	Lights during playback.
POWER indicator	When power is turned on, the indicator lights up.
POWER switch	Press this button to turn the power on and off.
PROGRAM RUN	Lights during program playback.
indicator	Except in playback mode, the indicator lights up when dump mode is set (AUDIO 2/R ON).
REMOTE SENSOR window	When using the optional remote control unit in the wireless format, the infrared commands from the unit are received

Feature	Description
	here. Receiving unit for infrared signals when using the optional bar code reader UC-V104BC in the wireless mode.
	This feature is not currently being used.
$SCAN(\triangleleft \triangleleft, \triangleright \triangleright)$ button	This is for quickly finding a particular point in the program from which you wish to play the disc. Scanning continues for as long as you keep the scan button depressed.
	$\triangleright \triangleright$: Forward Direction
	⊲⊲: Reverse direction
SEARCH indicator	Lights during execution of search.
STILL/STEP	When either end of the button is pressed, the unit will enter
$(\triangleleft \mathbf{H}, \mathbf{H} \triangleright)$ button	frame-by-frame playback. Then, when the ∎∎⊳ end is pressed, the picture will advance forward frame-by-frame.
	When the $\triangleleft II$ end is pressed, the picture will reverse frame-
	by-frame.
	This feature is not currently being used.

Rear Panel Facilities



Figure 4-7 — Rear Panel Facilities

EXT SYNC	Feature	Description
EXT SYNC IN	EXT SYNC TERMINATION selector	This switch is used for selecting whether the signal input to EXT SYNC is given 75W termination WithHTM: player (ODG position), or looped through (OEF position)AUDIO OUT
		Plug this into wall outlet (12/00/60 Hz)
GEN SYNC OUT	terminals (BNC jacks)	One VALES ENRIFIE is used for inputting an external sync signal from a sync generator, and the other is used for loop through when the player is operated in the EXT SYNC MODE. When the external sync signal is present at the input, the player enters the EXT SYNC MODE automatically.
		*Input condition: [75W, MIN: $0 \sim -3V$, MAX: $+1 \sim -5V$, Negative]
	GEN SYNC OUT terminal (BNC jack)	To externally synchronize another player with the composite sync of this LaserVision player, connect this terminal to one of the EXT SYNC IN terminals of the player.
		This feature is not currently being used.
	VIDEO OUTPUT terminals	These terminals are only for connection to a color video TV monitor (one which has a video input terminal). It provides an NTSC video signal. These terminals are not for connection to conventional TV sets.
	INTERFACE CONNECTOR (D- SUB 15 pin)	Used for serial interface connection to a computer or controller.
	EFM OUT terminal	To connect an LD-LOM adapter.
		This feature is not currently being used.
	DIGITAL/ANALOG AUDIO OUT terminals (RCA jacks)	These terminals output LaserVision Disc audio (analog) and the audio for LaserVision with Digital Sound Discs.
		Connector 1L is connected to "audio in" located on the rear panel of the Channel Modulator.

Feature	Description
ANALOG AUDIO OUT terminals (RCA jacks)	These terminals output the analog audio of LaserVision Discs only. Connect them to the AUX input terminals of your stereo amplifier. Do not connect these terminals to your amplifier PHONO input.
	These terminals do not output the digital sound from LaserVision with Digital Sound Discs. This feature is not currently being used.
Chapter 6 - Video Insertion Option

Overview

Sneak Prevue provides a customized promotional service consisting of promotional spots, special segments (Reel Talk), title billboards, order information and local insertion. Within the configuration for each unit is a flag which allows video insertion from an external source (VTR). The insertion timing occurs based on a play script.

Video Insertion allows the operator to insert advertising, cross promotional spots, events, etc., within the Sneak Prevue presentation. Each insert spot can be between 30 seconds to 2 minutes in length dependent upon the operator. These are controlled with the start and stop tones placed on the video tape. While insertion occurs, the Sneak Prevues LaserDisc player parks and waits for insertion to end.

Note: In order to effectively maintain the Sneak presentation on screen, no more than 2 minute spots are recommended.

Insertion will occur 2, 4, or 6 times per cycle or rotation of the current play script. Default operation is approximately once every 7 minutes. This option is designed so that it has additional flexibility if needed. Refer to the "Timing Options" section, located in this chapter, for an explanation of other timing options.

Sneak Prevue insertion is in full screen format. With the normal configuration, video insertion will occur approximately 8 times per hour. However, this is dependent upon the length of the spots being inserted. One insertion segment will be played during each insertion time. Multiple segments may be programmed on the insertion tape with the appropriate begin / end tones and a rewind tone after the end of the last segment.

Hardware Requirements

The hardware requirements to accomplish video insertion on the Sneak Prevue are as follows:

Video Inserter	Channelmatic CIS-2A
Tape Marking System	Channelmatic DTG-102A
Timer (optional)	Intermatic ET72150
VTR	Sony VO7600
Time Base Corrector (Recommended)	***

Note: Most VTR manufacturers will recommend using a time base corrector to eliminate tape distortion and other associated problems when broadcasting video from tape. To maintain optimum video performance of the Sneak Prevue, we recommend using a time base corrector in line with the VTR and Prevue equipment in order to deliver glitch free, <u>broadcast quality video</u> to your subscribers.

Contact Channelmatic to get current pricing. Their toll free number is:

Channelmatic - 800 766-7171

Other manufacturers' equipment may be suitable for video insertion, but at this time we recommend the above.

Note: The Intermatic timer mentioned above can be an option if you need to switch insertion on/off at certain hours of the day. Otherwise, the insertion option will operate according to the timing options you specify. Refer to the "Timing Options" section located in this chapter.

IMPORTANT! All instructions for equipment set up will be in reference to the above specific equipment used with the Sneak Prevue Control Unit. The control unit is the only equipment supplied by Prevue Networks. Refer to the "Video Insertion Equipment Setup" section, located in this chapter for additional information.

VTR Selection

A wide variety of 3/4 inch VTR's are supported by the Channelmatic CIS-2A Controller. For compatibility and configuration to your system, consult a Channelmatic representative (800) 766-7171.

The Channelmatic unit we suggest, model **CIS-2A**, is also referred to as the **Li'l Money Maker**. This must also include the **DTG-101A** Tone Generator which is used to program the Channelmatic and to encode tones on the video tape.

Channelmatic currently has two Super VHS units they can interface with. They are:

Panasonic AG 7150

- playback only unit, appx. cost \$2200.00
- Interface VCR cable CAV-145A (\$50.00)

JVC BR S605U

- playback/record unit, (appx. cost \$2745.00)
- Interface VCR cable CAV-146A (\$50.00)

Theory of Operation:

Sneak Prevue uses a cart switch closure for video insertion. Sneak does NOT use DTMF (Dual Tone Multi Frequency) as a cue signal to start video insertion. The cue signal or cart switch closure is delivered via the Sneak Prevue script and playback format that controls the Sneak Prevue control unit.

The Sneak Prevue Control Unit uses a cart switch (contact) closure to initiate and maintain the video insertion. The contact is held closed for 1/4 second and continues as long as the on-air live is grounded or a stop tone on the tape is encountered. To work properly, the video insertion equipment must be set for "commercial priority" mode.

The LaserDisc plays video segments and provides the video synchronization source for the system. When it is time for the insertion segment, the Sneak Prevue unit closes the relay which starts the Channelmatic and allows the VTR to play until the end tone is reached on the insertion tape. If the "On Air" signal is not accomplished in 20 seconds the system will continue to operate without insertion. The billboard screens appear until the VCR preroll and the start delay have occurred.

During the insertion segment, the LaserDisc remains in a freeze frame of the billboard background video. Once the end tone is reached (or a failsafe of 2 minutes) on the insertion VTR, the Sneak Prevue unit will continue by displaying the next full motion video promotion.

The insertion timing occurs based on a play script and the playback format your cable system has chosen. Video Insertion will normally occur twice per cycle or rotation of the current play script. This option is designed so that it has additional flexibility if needed. With the current default configuration, video insertion will occur 8-10 times per hour or twice per playback format. The maximum length we recommend per insertion spot is 2 minutes. One insertion segment will be played during each insertion time. Multiple segments may be programmed on the insertion tape with the appropriate begin / end tones and a rewind tone after the end of the last segment.

IMPORTANT! Once you are ready for video insertion it will be necessary to call Prevue Technical Services to set this flag in the configuration file for your unit. Otherwise, insertion will not occur.

A sample playback format appears below to give an example of how the insertion is queued.

30 second spot
30 second spot
30 second spot
30 second spot
cart switch closure to trigger
30 second spot

Timing Options

Video insertion is customizable for each Daypart depending upon your needs.

Dayparts are defined as follows:

- Morning 5:00am 10:00am
- Midday 10:00am 7:00pm
- Primetime 7:00pm 11:00pm
- Late 11:00pm 5:00am

Insertion Codes

The following codes define the various timing options available for video insertion.

Insertion Code	Definition
Ν	No Insertion during daypart segment.
L	Normal Insertion (standard default) This is insertion all day, twice per 15 minute playback format or once every 7 minutes. This also equates to 8 times per hour.
М	Approximately 4 insertion spots per 15 minute playback segment.
Н	Approximately 6 insertion spots per 15 minute playback segment.

Sample Configuration

The table below represents an example of how insertion codes define the video insertion option for each daypart.

	Daypart			
	Morning	Midday	Primetime	Late
Time Frame	5am - 10am	10am - 7pm	7pm - 11pm	11pm - 5am
Insertion Code	N	L	Н	L

Tape Preparation

Editing the tape requires special equipment such as:

- additional VTR's
- an editing system
- a titling character generator

The character generator is used to overlay text on the screen if required. You may want to consult with a local audio/video production facility if you do not have the equipment available to do your own editing.

Note: Program audio should only be recorded on Channel 2 of the video tape. The tones used to control the tape should be recorded on Channel 1.

Each insert spot can be between 30 seconds to 15 minutes in length dependent upon the operator. These are controlled with the start and stop tones placed on the video tape. While insertion occurs, the Sneak Prevues LaserDisc player parks and waits for insertion to end. However, we recommend no more than 2 minute spots in order to maintain the Sneak presentation on screen.

Tones

Tones must be properly placed on the video insertion tape so the tape can be positioned and played on air correctly. For each video segment on the tape there must be a START and STOP cue tone. After the last video segment on the tape there must be a REWIND tone.

The DTG-102A will generate the correct tones required to be used with the CIS-2A video inserter. The tones should be 1 second in duration. Sneak Prevue insertion operates in a full screen format unlike Prevue Channel which is in "half" screen format.

Start Cue Tone

The START cue tone must be placed 8 seconds minus the VTR lag time before the start of the video segment. The VTR lag time is the time it takes from when the VTR receives a PLAY command until the tape transport mechanism actually starts to move. (Sony type 5 VTR's have a lag time of approximately 3.5 seconds.)

Stop Cue Tone

The STOP cue tone should be placed at 2 seconds after the end of the video segment. The REWIND cue tone should be placed at 5 seconds after the end of the last video segment on the tape.

Making a Video Insertion Tape

The recommended procedure for making a video insertion tape is as follows:

- 1. First stripe the tape with black video.
- 2. Place the first video segment approximately 15 seconds into the tape.
- 3. Each video segment should have a 15 second gap between it and the next video segment. This allows room for the START and STOP cue tones to be placed at the beginning and end of each video segment.
- 4. After recording the video segment roll backwards from the first frame of video the appropriate number of seconds to lay down 1 second of START tone.
- 5. Roll forward from the last frame of video for this video segment and lay down 1 second of STOP tone.
- 6. Repeat this process until all the video segments have been recorded.
- 7. Finally roll forward 5 seconds from the last frame of video for the last video segment and lay down 1 second of REWIND tone.

Video Insertion Tape Marking Procedures



Video Insertion Equipment Setup

The Channelmatic CIS-2A *must be programmed* to properly insert video on Prevue Channel.

The DTG-102A tone generator is used to program the video insertion parameters. Use the keypad to enter the program parameters for each option listed below.

Option	Program Parameters	
Preroll time	*02080# (8 seconds)	
Maximum video insert length	*04999# (999 seconds (appx 15 min.)	
Operating mode	*31# (commercial priority)	

The last setting on the Channelmatic CIS-2A is the position of the MODE switch. The MODE switch should be set to continuous operation.

Cabling/Hardware Configuration

The following figures show the cabling/hardware configuration for video insertion with Sneak Prevue and Channelmatic.



Video Insertion Setup for Version 5 Control Unit

Figure 5-1 — Video Insertion Setup for Version 5 Control Unit



Video Insertion Setup for Version 6 Control Unit

Figure 5-2 — Video Insertion Setup for Version 6 Control Unit

Cable Requirements

The following is a list of required cables:

Ca	ıble:	Description:	Supplied By:	
1.	Baseband loop	The Sneak Prevue Control Unit (SPCU) baseband may be looped to another SPCU through the b.b.loop . Otherwise, b.b.loop should be 75 Ohm terminated.		
2.	BaseBand from receiver	RG59 coax from receiver to B.B. input on SPCU	System	
3.	Laser Audio Out	Audio out from LaserDisc player to TVRO audio in on insertion unit	System	
4.	SPCU video out	SPCU video out to system channel modulator	System	
5.	Manual start control	2 conductor from cart switch on SPCU to manual start & ground on insertion unit.	System	
6.	On Air Control Cable	2 conductor (gray) from 25 pin on air control cable to ground and on air on insertion device.	Prevue	
7.	VTR sync in	Sync out from insertion unit to sync in on VTR	System	
8.	VTR video out	VTR video out to VCR in on insertion device	System	
9.	VTR audio out (ch. 1)	VTR Audio out (ch. 1) to VCR audio in (ch. 1) on insertion unit	System	
10.	VTR audio out (ch. 2)	VTR Audio out (ch. 2) to VCR audio in (ch. 2) on insertion unit	System	
11.	VTR remote cable	VTR remote (33 pin) to VCR remote input on insertion unit	System	
12.	Video input	PGM video from insertion unit to video in on SPCU	System	
13.	PGM audio out	PGM audio out from insertion unit to system channel modulator	System	

*SPCU = Sneak Prevue Control Unit

Customer Service

If you have questions about the Video Insertion option, contact your Affiliate Sales Representative, or, if you need technical assistance, contact Prevue Technical Services at

1-800 447-7388.

Chapter 7 - Trouble Shooting

Introduction

All Sneak Prevue equipment has been thoroughly tested before shipping to you. However, due to transit handling and environmental conditions, problems may occur.

The Prevue Networks technical service line is available 24 hours a day, 7 days a week, to help with any problems you may experience. The number is:

800 447-7388

Power Outages, Surges and Lags

In the event of a power outage, the Sneak Prevue Control Unit is designed to reboot and automatically begin playback of the current video on LaserDisc.

However, in the event of a power surge or lag, the computer may lock up. If this happens, it would be necessary to power off/on all equipment. Once powered up, the SPCU will reboot, load the data and operating software from floppy disk, and automatically begin playback.

System Reboot

If the Sneak Prevue Control Unit locks up, reboot the computer by doing the following:

1. Simultaneously press the "Ctrl" (control) key and the "A" (Amiga) key to the left of the space key along with the other "A" (Amiga) key to the right of the space key.

CTRL key

- Figure 7-1 Amiga Keyboard Layout
- 2. The computer will initiate a bootup routine which should take approximately 60 seconds. The disk activity LED's will flash as the operating software is loaded. The operating software and data will be loaded into RAM from floppy disk.
- 3. A message will appear in a banner on the top parties a fight screen indicating the unit is "Testing the system" The case rDisc will respond by flashing the "PLAY" LED.

The next message to appear on the screen is, "Processing Data". At that time, a line will appear at the left of the screen, and incrementally move to the far right position of the screen. This line is an indication that all connections and files are being verified.

4. Once all the connections and files are verified, the LaserDisc will begin the Sneak Prevue playback mode.

Typical Problems

To further assist you, typical problem situations are listed below, along with a recommended course of action. If a recommended action does not remedy the problem , call Prevue Technical Service at **800 447-7388**.

1. **Condition:** "Stand by" banner appears indicating E07 (no current data available).

Action: Call Prevue Technical Services for a data transmission. Once current data is received, Sneak Prevue video will automatically resume and begin playback.

Note: If playback does not begin, press ESC on the SPCU keyboard to access Customer Diagnostics and call Prevue Technical Service for assistance.

2. **Condition:** Some of the program information is not displaying on screen.

Action: Same as action in number 1.

3. **Condition:** "Stand by" banner appears indicating E05 (no current DD file present). *DD=disc directory*

Action: Call Prevue Technical Services and explain what message you have on the screen and ask for a data transmission. Once the disc directory file is received, press the space bar to retest the system, as indicated on screen. Sneak Prevue video will automatically resume and begin playback.

Note: If playback does not begin, press ESC on the SPCU keyboard to access Customer Diagnostics and call Prevue Technical Service for assistance.

4. **Condition:** Sneak Prevue not in a playback mode, but was running fine the previous day.

Action: Remove both disks, then insert in respective drives and reboot the SPCU. Review for possible error messages on screen. Call Technical Service if the condition continues.

5. **Condition:** No data being received even after calling Prevue Technical Service for data transmission.

Action: Check composite baseband signal and the cable. Access Customer Diagnostics for troubleshooting with assistance from Prevue Technical Services. 6. Condition: A 1> prompt is on the screen and never leaves.

Action: Check the disks in both drives. The system disk should be in the right drive, the data disk should be in the left drive.

Reboot the system after checking and re-installing both disks.

If the same condition continues, the system disk has probably failed. Find a spare system disk and reboot with it. <u>Be sure to call Technical</u> Services if you use the last disk.

Note: You should always have a spare system disk available in the keyboard tray.

7. **Condition:** VideoDisc player is in a play mode but there is no video on the screen.

Action: Verify the video output of the LaserDisc player is properly connected to the SPCU. Then reboot the SPCU.

Note: If playback does not begin, press ESC on the SPCU keyboard to access Customer Diagnostics and call Prevue Technical Service for assistance.

8. Condition: No Power to LaserDisc player.

Action: Verify power at outlet.

If still no power, remove LaserDisc player from rack and remove the lid.

Verify the four 3-amp fuses on the right side of the LaserDisc player are not blown. If they are, replace them and call Prevue Technical Services.

Also, please inform Prevue Technical Services in the event the fuses blow again after they have been replaced.

9. Condition: Billboard text overlaying LaserDisc player video.

Action: Cycle power on both SPCU and LaserDisc units.

Call Prevue Technical Service and inform them of the action taken.

10. Condition: Red flashing box displays "software failure..."

Action: Cycle power on both SPCU and LaserDisc units.

Call Prevue Technical Service and inform them of the action taken. Do not replace diskettes unless directed to do so.

12. Condition: Frozen Screen

Action: Call Prevue Technical Service.

13. Condition: Screen is flashing

Action: Cycle the power on the SPCU and call Prevue Technical Service.

14. Condition: Time is incorrect

Action: Call Prevue Technical Service for a data transmission.

15. Condition: Message on screen reading local data.

Action: Cycle power on the SPCU. If this happens again, clear drives with the cleaning kit 5 times each. Re-insert the DF1 diskette and reboot.

If this happens a third time, replace the DF1 diskette and call Prevue Technical Service for a download.

Error Message Handling

If an error message has been displayed on the screen, locate the error message in the table below and follow the instructions to correct the problem.

Note: Refer to Appendix A - Sneak Prevue Error Message Cross-Reference, for a complete listing and definition of error messages.

Error Message Code(s)	Resolu	ution
E01		• Verify there is power to the LaserDisc player.
		• Power down both the SPCU and LaserDisc player.
		• Reconnect the serial cable that runs from the 15 pin connector on the LaserDisc player to the SPCU. (Either a 25 pin or din plug)
	NOTE	• After re-connecting cable, power up both the SPCU and LaserDisc player.
	NOTE:	Call Prevue Technical Service to inform them of the action taken.
E02, E03, E04		• Hit the space bar if the LaserDisc player does not go to a solid play after 1 minute.
		• Verify the laser disc is installed properly into the LaserDisc player, and that it is the current disc.
		• Close the drawer and press PLAY.
		• If the LaserDisc player is still not functioning, power off and back on both the SPCU and LaserDisc player. After the LaserDisc player has been powered up, press the PLAY key once.
	NOTE:	If the message continues to display, call Prevue Technical Service.
E05, E06		• Verify the correct laser disc is installed in the LaserDisc player.
		• If problem persists, call Prevue Technical Service. Inform them of the message code and the numbers listed after the code.
E07		• Call Prevue Technical Service for a data transmission.
		• Verify the SL code on screen matches the select code on the back of your SPCU.
		• Once the date is received, the Sneak unit will begin operating on its own.
	NOTE:	Do not power off SPCU while waiting for your data transmission.
		• If the Sneak unit does not begin playback, verify your receiver is functional and your baseband is connected to the SPCU and tuned to Galaxy 5, Transponder 7.

Appendix A

Sneak Prevue Error Message Cross-Reference

Message Format

This Is Your Sneak Prevue Channel. Please Stand By For Pay-Per-View Information and Videos.

Enumber:Information

Message Codes

Error Message Code	Information
E01	LaserDisc player not powered up or not connected to serial port.
E02	Disc not present or disc upside down.
E03	Disc did not spin up. Reason Unknown.
E04	Disc in player is not valid for this service.
E05:yyddd	Disc directory file <i>yyddd</i> not present. <i>yyddd</i> = 2-digit year followed by 3-digit Julian date
E06:yyddd	Script file <i>yyddd</i> not present. <i>yyddd</i> = 2-digit year followed by 3-digit Julian date
E07:SLnnnn	No current data available for <i>SLnnnn</i> . Call for download. $SLnnnn = \underline{S}$ neak \underline{L} aser prefix plus 4-digit id code for specific system

Appendix B

Reference Material

1.	"Introduction to the Commodore AMIGA 2000"

Commodore Business Machines, Inc., Wilson Drive, West Chester, PA 19380 P/N 319927-02

- "Service Manual Laservision Player LD-V8000"
 Pioneer Electronic Corporation
 P/N ARP1758
- "Engineering Handbook" National Association of Broadcasters Washington D.C. ISBN 0-89324-000-1
- 4. "Data Transmission"

Dogan Tugal/Osman Tugal McGraw-Hill ISBN 0-07-065427-1