

***EZCD2*TM**

**CD Duplicator System
User's Manual**

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Ver: 1.0

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Chapter 1 Introduction

1.1 Overview

Users who want to backup their CD would normally have to go through many steps, including turning on their computer, launching the software, setting up various parameters, and tying up their computer, sometimes up to hours to get multiple CD backups. Obviously, the *EZCD2™* will easily resolve the little inconveniences and drawbacks mentioned above.

EZCD2™ is a CD to CD or CD to HD to CD standalone CD duplicator that does not need to be connected to a computer. It provides a flawless function in duplicating any format of compact discs with excellent accuracy. With its professional mechanism design and multi-function LCD panel, the *EZCD2™* is easy for any end-user to operate. It is a perfect solution for CD-R duplication of audio, data, and video applications. The simple four push-button panel is designed to provide copy modes selection and to select copy operations.

1.2 Features

- _ Standalone CD Duplicator
- _ Self system diagnostics when powered on
- _ Supports Hard Drive image (Optional)
- _ Auto format detection
- _ User friendly interface with rich LCD message display
- _ Fast copies support high speed CD-RW writing mode
- _ Easy operation without software or training required
- _ Firmware upgrade via CD-ROM

1.3 Specification

Power requirement - voltage: 5VB+/- 5% current: 0.5A Max.

Environment - Temperature

Operating 0 °C to 70 °C

Storage -20 °C to 85 °C

Dimensions

Length: 200 mm

Width: 146.2 mm





Height: 42 mm

CD Format - CD-ROM (Mode1 & Mode2), CD-ROM/XA (Mode2 form1 & form2), CD-DA, Mixed-Mode, Video CD, CD-I, Photo CD (Single & Multi-session), CD-Extra, HFS, CDBridge, ISO9660, CD-R, and CD-RW

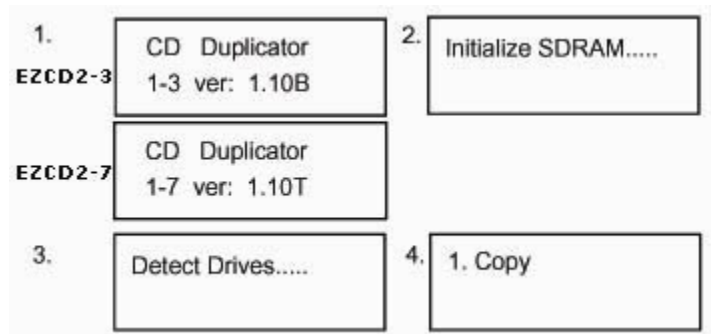
Writing mode - Auto Detect (DAO, TAO)

Chapter 2 Key Functions and Operating Instruction



- 1: LCD Display Panel: Display main functions and all messages.
- 2:  Scroll up through menus or functions.
- 3:  Scroll down through menus or functions.
- 4:  Execute the function which you select.
- 5:  Cancel the function which you select.

Unpack the *EZCD2™* and check that everything is in place. Plug in and power on the CD duplicator. The *EZCD2™* will perform a self test for a few seconds. The LCD display will look similar to the pictures below during the self test:



1. With hard disk drive option

- _ *EZCD2™* will detect the hard drive and create partitions for it. Each partition will have 1G capacity, for example a 10GB Hard Disk will have 10 partitions, which will include 9 working partitions and 1 TEMP partition.
- _ Use the arrow button, scroll to “Select Source” to set the hard drive being the target source.
- _ Scroll to “Image” in the Main Menu to select the partition to store the data.
- _ If there is no data stored in present/selected partition of hard drive, press the arrow button to select “Load” function and place the master CD disc into the CDRom, then press “ENT” button to load data into the present/selected hard drive partition. Change another master disc for multiple data loading. Master data can be stored in different partition, switch to that particular partition (Please refer to Image) for loading.
- _ Switch to “Copy” function by pressing arrow button. Insert blank CD-R or CDRW discs into all the CD writers. Press “ENT” button to start copying when all writers have detected CD discs.

- _ When duplication is completed on all CD writers, the passed CD discs will be ejected automatically (default setting: Passed discs will be ejected. This can be changed according to your setting). For continuous duplication, place additional blank discs into the CD writers and repeat the above procedures.
- _ Failed disc(s) will remain in respective CD writer(s) (Default setting: Failed disc NOT ejected. This can be changed according to your need). Press each eject button on the CD writer to eject CD disc manually.
- _ EZCD2™ will prompt an error message when you try to copy a partition that contains no data. In this case, please switch to “Load” function to load data first.
- _ Do not press any button on duplicator during operation as interruption/termination of operation will cause error and might cause the duplicator to become unresponsive. The CD-R discs will be ruined and can not be used again.

2. Without hard drive installation

- _ Place master disc into CD-ROM.
- _ Switch to Copy function by pressing arrow button. Place blank CD-R or CDRW disc into all the CD writers. Press “ENT” button to start copying when all writers have detected the CD discs.
- _ When duplication is completed on all CD writers, the passed CD discs will be ejected automatically (default setting: Passed discs will be ejected. This can be changed according to your setting). For continuous duplication, place additional blank discs into the CD writers and repeat the above procedures.
- _ Failed disc(s) will remain in respective CD writer(s) (Default setting: Failed disc NOT ejected. This can be changed according to your need). Press each eject button on the CD writer to eject CD disc manually.

Chapter 3 Function

3.1 Copy

When doing the copying process, the data will burn into the blank CD-R/RW discs. Before doing the copying process, make sure the present partition in hard drive contains the correct image you wish to copy (with hard drive installed) or the master CD is put in the CD-ROM drive (without hard drive installed) before copying.

1. Copy	Place blank CD-R/CD-RW discs into the CD writers, when all writers detect the CDs, press “ENT” button, EZCD2™ will start copying.
Copying-24X 0% 650.0MB 74:00	The LCD will display the copying information in writing speed, percentage completed, megabyte and minutes recorded.

1.Copy
OK: 03

When copy is completed, discs that pass will eject automatically and failed discs will remain in CD writers.

Put new blank CDs in the CD writers for additional copy. CD-RW discs containing data can also be copied by duplicator if the writers installed are capable of CD-RW writing. Data stored in the CD-RW disc will be quickly erased automatically before copying new data, no special settings or procedures are required to erase the old data.

3.2 Test

This function will simulate the “Copy” function. The blank CD-R/RW discs will not be written and will remain blank.

2.Test

Press “ENT” button to start the disc simulation of copy or press “ESC” to exit.

Erasing disc

For CD-RW discs that contain data, “Test” will do quick erase of all old data before testing. Thus, never do simulation on CD-RW discs that contain important data.

Testing-24X 0%
650.0MB 74:00

LCD will show the process of testing information.

2.Test
OK: 07

When the process is finished, the LCD will show the message of the “Test” result.

Termination halfway of “Test” will not affect the CD-R disc and they will remain blank. Please note that CD-RW discs containing data may be erased and cannot be retrieved again. The duplicator may hang up and can only be reset by restarting the power.

3.3 Test&Copy

3.Test & Copy	Press "ENT" button to do the disc testing then copy data on the disc or press "ESC" to exit.
Testing-24X 0% 650.0MB 74:00	Before copying, the writers will simulate the copying process.
Copying-24X 0% 650.0MB 74:00	When testing process is completed, <i>EZCD2™</i> will start copying data onto the CD-R/ RW disc.
3.Test & Copy OK: 03	When the process is finished, the LCD will show the message of the "Test & Copy" result.

3.4 Verify

This function will verify if the discs are able to be read correctly after copying. Different discs in the CD writer and CD-ROM drive can be verified together simultaneously.

4.Verify	Press "ENT" button to start the disc verify or press "ESC" to exit.
Verify--24X 0% 650.0MB 74:00	LCD will show the process of "Verify" information.
4.Verify OK: 07	When the process is finished, the LCD will show the message of the "Verify" result.

3.5 Compare

This function will compare data between master and target discs after discs are copied.

3.Compare	Press "ENT" button to do the disc compare or press "ESC" to exit.
Compare-24X 0% 650.0MB 74:00	LCD will display the "Compare" data information.
Compare OK: 3 Fail: 0 Diff: 0	When the process is finished, the LCD will show the message of the "Compare" result. Then the CD discs will be ejected by the CD writer.
Src: 01 CD-ROM Total: 650.0MB	Press "ENT" button to see the detail of "Compare" information.
Src: 02 CD-RW Identical	If the compare result is identical, the LCD will show the message as on the left.
Compare OK: 2 Fail: 1 Diff: 0	When the compare result has failed. The message will show the number of discs that have failed and succeeded.
Src: 01 CD-ROM Total: 0 Bytes	Press "ENT" button to see the detail of "Compare" information.
Src: 02 CD-RW TOC not match	If the compare result failed, the LCD will show the reason of failure message as on the left.

3.6 Prescan

This function will scan the master disc to see if it can read correctly and test the reading speed.

6.Prescan	Press "ENT" button to prescan the disc or press "ESC" to exit.
Scanning-24X 0% 650.0MB 74:00	LCD will show the process of scanning information.
PreScan OK!	If the master of the disc can read correctly, the LCD will show "OK!" message.
PreScan Fail!	If the master of the disc can not read correctly, the LCD will show "Fail!" message.

3.7 Disc Info

This function will show the total of data information from the master disc.

7.Disc Info	Press "ENT" button to show the disc information or press "ESC" to exit.
Total 02 Sessions Total 10 Tracks	The LCD will show the total sessions and tracks on the master disc.
Total: 74:00 Total: 650 MB	Press "ENT" button again, the LCD will show the total time and capacity on the master disc.
Session 01 Track 01 - 09	Press "ENT" button again and use arrow button to select the session, LCD will show what information is contained on the session.

Track 01
AUDIO 03:54

Press "ENT" button again and use arrow button to select the track, LCD will show what information is contained on the track.

3.8 Select Source

This function is to select the source target drive where the data is coming from. The source could be selected from CD-ROM, CD-R/RW, or hard drive.

8.Select Source

Src: CD-ROM
01 IDE0 Slave.

CD-ROM Selected!

Press the "ENT" button to select source function or press "ESC" to exit.

Then use arrow button to select the CD-ROM, CD-RW or hard drive as the master source.

When the source is selected, then press "ENT" button. LCD will show the source information as on the left.

Duplicator will prompt an error message when you select the hard drive as a source and try to copy from a partition that contains no data. Switch to proper partition or use "Image" function to load the master data to current partition.

3.9 Image

This function will be valid when hard drive is installed in the duplicator. Otherwise, this function will be shown as "No HDD" on the LCD.

9.Image

Press "ENT" button to enter the selection and press "ESC" to exit.

3.9.1 Load

Place the master CD disc into the CD-ROM or any one of the CD writers, the duplicator will detect and analyze the master CD.

9-01. Image P: A Load	Press "ENT" button to load data into the current partition of the hard drive.
Load- A -24X 0% 650.0MB 74:00	LCD will show the process of "Load" information.
Image load OK	When the image has succeeded to load into hard drive, the LCD will be as the left.
Image Exists Overwrite? Yes	If there is an existing image in current partition, the system will ask to overwrite it. Use the arrow button to select "Yes" or "No" to overwrite the existing image.

3.9.2 Delete Image

This function clears the master data stored in the current partition of hard drive. After you make an image on the hard drive and then want to empty the image from the hard drive. The "Delete Image" function will delete the current partition of hard drive which user select. To process the function just make a selection and press "ENT" button to delete it.

9-02. Image P: A Delete Image	If the hard drive partition contains image, you can use the function to delete it.
Delete Image in Partition A? Yes	System will make a confirmation to make sure that the partition of image will be deleted. Use arrow button to make "Yes" or "No" selection.
Partition A: Image is deleted	When the image is successfully deleted from hard drive, the LCD will be as on the left.

3.9.3 Image Info

This function will show the total sessions and tracks in the current partition on hard drive.

9-03. Image P: A Image Info	Press "ENT" button to show the disc information or press "ESC" to exit.
Total 01 Sessions Total 01 Tracks	The LCD will show the total sessions and tracks in the hard drive partition.
Total: 74:00 Total: 650 MB	Press "ENT" button again, the LCD will show the total time and capacity in the hard drive partition.
Session 01 Track 01 - 01	Press "ENT" button again and use arrow button to select the session, LCD will show what information is contained in the session.
Track 01 DATA 650.0MB	Press "ENT" button again and use arrow button to select the track, LCD will show what information is contained in the track.

3.9.4 Compare Image

This setting will compare the image between the target source and the current working partition on hard drive.

9-04. Image P: A Compare Image	Press "ENT" button to process or press "ESC" to exit.
Comp-A-24X 0% 650.0MB 74:00	LCD will show the process of "Compare" information.

<p>Compare OK: 1 Fail: 0 Diff: 0</p>	<p>When the process is finished, the LCD will show the message of the “Compare” result.</p>
<p>Src: 01 CD-ROM Total: 650.0MB</p>	<p>Press “ENT” button to see the detail of “Compare” information.</p>
<p>Tgt: 00 HDD P:A Identical</p>	<p>If the compare result is identical, the LCD will show the message as on the left.</p>
<p>Compare OK: 0 Fail: 1 Diff: 0</p>	<p>When the compare result has failed. The message will show the number of discs that have failed & succeeded.</p>
<p>Src: 01 CD-ROM Total: 0 Bytes</p>	<p>Press “ENT” button to see the detail of “Compare” information.</p>
<p>Src: 02 CD-RW TOC not match</p>	<p>If the compare result has failed, the LCD will show the reason of failure as on the left.</p>

3.9.5 Select Partition

This setting help selects the current working partition on hard drive. After selecting a partition, exiting will bring you back to Copy function in main menu directly.

<p>9-03.Image P: A Select Image</p>	<p>Press “ENT” button to change the setting or press “ESC” to exit.</p>
---	---

Hard drive installed on duplicator will be partitioned by 1G in each partition. Number of partitions available depends on the hard drive’s capacity. No pre-Formatting or software setup is required to install the hard drive. Each partition in hard drive will be labeled in alphabetical order starting from A, B, C...Z, AA, AB, etc.

Select Working Partition - A
Set Partition to A

Use arrow button to select which partition will be worked on.

When the partition is set, the LCD will be as on the left.

3.9.6 Select Src Drive

This setting will select a particular drive to be a target source and the data will be coming from it.

9-06. Image P: A Image Src Drive
Select Img Src: 01 IDE0 CD-ROM
Load image from Drive ID-01

Press "ENT" button and arrow button to select the source or press "ESC" to exit.

Then use arrow button to select the CD-ROM or CD-RW as the master source to load the image from.

When the source is selected, press "ENT" button. LCD will show the source information as on the left.

3.10 Edit Track

This is a track-selecting function that can combine tracks on different CD discs into one single CD disc. For example, you can make a collection of favorite songs from different music CDs and store them into one CD disc.

10. Edit Track

Press "ENT" button and arrow button to select or press "ESC" to exit.

3.10.1 CD to CD Edit

Select "CD to CD Edit" to select the CD track on the CD-ROM, then you can copy directly from CD to CD.

10-01. Edit Track CD to CD Edit	Press "ENT" button to change setting; "ESC" button to bring you to next setting.
Select Track: 1/10 03:25	Follow the LCD to select the track that you want to edit.
Select Track: +1/10 03:25	Press "ENT" button to select the track. After the track is selected, the "+" will appear. Pressing "ENT" again will cancel the track that you selected to edit.
Select Track: End 1Trk03:25	Finally, when the track of selection is made, use arrow button to move to the "End" of the menu.
End edit disc and burn? Yes	Press "ENT" button to finish the disc edition. Use arrow button to make "Yes" or "No" selection.
Copying- 24X Edit 1/10 - > 1/1	LCD will show the process of "CD Edit" copying information.
Burn Complete! OK: 03	When Copy is finished, the LCD will show the "Burn Complete!" message.
Continue edit next Disc? Yes	System will ask to continue edit. Use arrow button to make "Yes" or "No" selection.
Insert next disc	If "Yes" is selected, the source disc will be ejected. Please insert another audio disc to edit.

Select Track: +2/10 04:25	Follow the step to select the track that you want to edit. Then press "ENT" button to add it on the disc.
Select Track: End 2Trk07:50	Finally, when the track selection is made, use arrow button to move to the "End" of the menu.
End edit disc and burn? Yes	Press "ENT" button to finish the disc edition. Use arrow button to make "Yes" or "No" selection.
Copying- 24X Edit 1/10 - > 2/2	LCD will show the process of "CD Edit" copying information.
Burn Complete! OK: 03	When Copy is finished, the LCD will show the "Burn Complete!" message.
Continue edit next Disc? No	System will ask to continue edit. Use arrow button to make the "No" selection then press "ENT" button.
Close all disc's session? Yes	The system will ask to close the disc session. Use arrow button to make "Yes" or "No" selection.
Closing Session Please wait---	LCD will show the process of closing session.

3.10.2 CD to HD

Select "CD to HD" to copy CD data into current partition of hard drive.

10-02. Edit Track CD to HDD Edit	Press "ENT" button to enter the setting; "ESC" button to bring you to next setting.
Select Track: 1/10 03:25	Follow the LCD to select the track that you want to edit.
Select Track: +1/10 03:25	Press "ENT" button to select the track. After the track is selected, the "+" will appear. Press "ENT" again will cancel the track that you select to edit.
Select Track: End 1Trk03:25	Finally, when the track of selection is made. Please use arrow button to move to the "End" manual.
End edit disc and burn? Yes	Press "ENT" button to finish the disc edition. Using arrow button to make "Yes" or "No" selection.
Load- P0 -24X Edit 1/10 - > 1/1	The source will be loaded to hard drive. LCD will show the process of data loading information.
Image load OK	When "Image Load" is finished, the LCD will show the "Image load OK" message.
Continue edit next Disc? Yes	System will ask if to continue edit. Using arrow button to make "Yes" or "No" selection.
Insert next disc	If "Yes" is selected, the source disc will be ejected. Please inset another audio disc to edit.

Select Track: +2/10 04:25	Follow the step to select the track that you want to edit. Then press "ENT" button to add it on the disc.
Select Track: End 2Trk07:50	Finally, when the track of selection is made. Please use arrow button to move to the "End" manual.
End edit disc and burn? Yes	Press "ENT" button to finish the disc edition. Using arrow button to make "Yes" or "No" selection.
Load- P0 -24X Edit 1/10 - > 2/2	The source will be loaded to hard drive. LCD will show the process of data loading information.
Image load OK	When "Image Load" is finished, the LCD will show the "Image load OK" message.
Continue edit next Disc? No	System will ask if to continue edit. Using arrow button to make "Yes" or "No" selection. Select "No" to go next step.
Burn or Move to partition? Burn	System will ask if to burn into CD or move to partition. Select "Burn" will start to record audio from hard drive into CD.
Copy- P0 -24X 0% 1/2 Trk03:25	LCD will show the process of copying from hard drive to CD information.
Burn Complete! OK: 03	When burning is finished, the LCD will show the "Burn Complete !" message.

Burn or Move to partition? Move	Select "Move" will move the data from hard drive template to partition.
Select Partition A	Select the partition that the data will move into.
Moving to P: A 0%	LCD will show the process of the data is moving.
Moving to P: A OK!	When moving is finished, the LCD will show the "OK!" message.
Image Exists Overwrite? Yes	If the current partition contains image data, system will ask to overwrite it. Select "No" to keep the data image, "Yes" to overwrite it.
Moving to P: A 0%	LCD will show the process of the data is moving.
Moving to P: A OK!	When moving is finished, the LCD will show the "OK!" message.

3.10.3 Play Audio Track

Select "Play Audio" will make the EZCD2™ a music player. The user can plug-in the trumpet into the audio out from the device.

10-03. Edit Track Play Audio Track	Press "ENT" button to enter the play audio function or "ESC" button to bring you to the next setting.
Select Track: 1/10 03:25	Use arrow button to select the track you want to play.
Playing Track-1 00:00 / 03:25	LCD will show the information of the track to play.

3.10.4 Close Session

Select "Close Session" will close the disc and cannot write any data into it. This function will make disc read on normal players.

10-04. Edit Track Close Session	Press "ENT" button to enter the setting; "ESC" button to bring you to the next setting.
Close all disc's session? Yes	System will ask a confirmation to close the disc's session. After this step, no new data can be written onto the disc.
Closing Session Please wait---	LCD will show the message of the closing disc's session.
Closing Complete OK: 3 Fail: 0	When closing session is finished, the LCD will show the number of discs that are "OK" or "Fail".

3.11 Setup

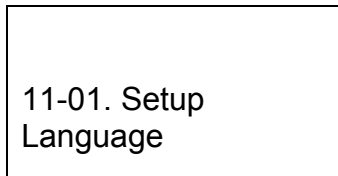
This function contains a list of options, which will allow user to change the original default settings. As there are different settings under the setup function to control the duplicator's operation, we suggest using the original default settings for optimal operation.



Press "ENT" button to enter the "Setup" function.

3.11.1 Language (optional)

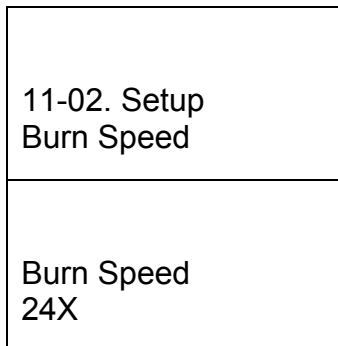
To set which message of language is shown on the LCD. There are English, Traditional Chinese, Simplified Chinese and Japanese languages supported on the LCD.



Press "ENT" to change the setting and "ESC" to exit.

3.11.2 Burn Speed

This setting controls the maximum writing speed of CD writers. Default setting is "Auto" which will use the highest writing speed of the writers. Sometimes maximum writing speed will cause high failure rate that may be due to poor CD quality or unstable CD writing.



Press "ENT" to enter the setting and "ESC" to exit.

Use arrow button to change the burn speed, then press "ENT".
(Depend on the CDRW maximum speed support)

3.11.3 Read Speed

This function sets the reading speed of the target source CD-ROM. Press “ENT” to enter the setting and “ESC” to exit.

11-03. Setup Read Speed
Read Speed 32X

Press “ENT” to enter the setting and “ESC” to exit.

Use arrow button to change the reading speed then press “ENT”. (Depend on the CDROM maximum speed support)

3.11.4 Auto Start Drive

This setting will make the CD writers automatically start copy or test when the blank discs are inserted into the CD/RW. Default setting is “Off”.

11-04. Setup Auto Start Drive
Auto Start Drive Off

Press “ENT” button to enter “Auto Start Drive” and “ESC” to exit.

Use arrow button to change “The number” or “Off” setting then press “ENT” or press “ESC” to go back to 11-04 manual.

3.11.5 Start up menu

This setting control will select the menu function that will first appear when the duplicator is turned on.

11-03. Setup Startup Menu
Startup Menu 1.Copy

Press “ENT” button to enter “Startup Menu” and “ESC” to exit.

Use arrow button to select menu item setting for the first menu item to show (1 to 11 items) then press “ENT”.

3.11.6 Auto Verify

This function will verify the target discs if it can be read correctly in the CD-ROM drive after the discs are copied. The default setting is "Off".

11-06. Setup Auto Verify
Auto Verify Off

Press "ENT" button to enter "Auto Verify" and "ESC" to exit.

Use arrow button to change "On" or "Off" setting then press "ENT" or press "ESC" to go back to 11-06 manual.

3.11.7 Auto Compare

This setting controls the auto compare of the data between the master and target discs after discs are copied. The default setting is "Off".

11-07. Setup Auto Compare
Auto Compare Off

Press "ENT" button to enter "Auto Compare" and "ESC" to exit.

Use arrow button to change "On" or "Off" setting then press "ENT" or press "ESC" to go back to 11-07 manual.

3.11.8 Auto Prescan

This setting controls the auto prescan of the master disc if it can be read correctly and also test the reading speed. Default setting is "OFF".

11-08. Setup Auto Prescan
Auto Prescan Off

Press "ENT" button to enter "Auto Prescan" and "ESC" to exit.

Use arrow button to change "On" or "Off" setting then press "ENT" or press "ESC" to go back to 11-08 manual.

3.11.9 Eject Disc

This setting controls the ejection of discs by CD writer. Three options are available: "Eject Good Only" setting will only eject the passed discs automatically and leave the failed one in the CD writers. "Eject All Disc" means the CD writers will eject the CD discs no matter whether operation is successful or failed. "Do Not Eject" means all discs will remain in CD writers when job is done and you will have to eject discs from the CD writers manually.

11-09. Setup Eject Disc	Press "ENT" button to enter "Eject Disc" and "ESC" to exit
Eject Disc Eject Good Only	Use arrow button to select "Eject Good Only", then press "ENT" or press "ESC" to go back to 11-09 manual.
Eject Disc Eject All Disc	Use arrow button to select "Eject All Disc", then press "ENT" or press "ESC" to go back to 11-09 manual.
Eject Disc Do Not Eject	Use arrow button to select "Do Not Eject", then press "ENT" or press "ESC" to go back to 11-09 manual.

3.11.10 Burn on the Fly

This setting controls the writing methods of CD disc. When the setting is "On", the data will direct copy from source drive to the target drives. When the setting is "Off", the data will load into a particular temporary partition in the hard drive. Then the copying data will come from the source partition.

11-10. Setup Burn On The Fly	Press "ENT" button to enter "Burn On The Fly" and "ESC" to exit
Burn On The Fly On	Use arrow button to change "On" or "Off" setting then press "ENT" or press "ESC" to go back to 11-10 manual.

There is no HDD!

If the system is not connected to a hard drive, the LCD will show the message as left.

3.11.11 Burn Mode

This setting controls the writing methods of CD disc including “Disc At Once” (DAO) or “Track At Once” (TAO). Default setting is “DAO”. Some CD writers may support different writing methods. If the method selected is not supported, duplicator will automatically switch to another one that is supported.

11-11. Setup Burn Mode
Burn Mode DAO

Press “ENT” button to enter “Burn Mode” and “ESC” to exit

Use arrow button to change “TAO” or “DAO” mode setting then press “ENT” or press “ESC” to go back to 11-11 manual.

3.11.12 Button Sound

This setting controls the On and Off function for the sound. Default setting is “On”. Press “ENT” button to change and “ESC” to exit.

11-12. Setup Button Sound
Button Sound On

Press “ENT” button to enter “Button Sound” and “ESC” to exit

Use arrow button to change “On” or “Off” setting then press “ENT” or press “ESC” to go back to 11-12 manual.

3.11.13 Device Info

This function will show what devices are connected to the duplicator. The LCD will display the brand and firmware of the drives.

11-13. Setup Device Info

Press “ENT” button to enter the device information and “ESC” to exit.

00 IDE0 Master CD-ROMTEAC	Use arrow button to select the device or press “ESC” to go back to 11-13 manual.
CD-540E 3.0A	Press “ENT” button to see the device information and “ESC” to go back to 11-13 manual.
01 IDE1 Master CD-RW TEAC	Using arrow button to select another device or press “ESC” to go back 11-13 manual.
CD-R CDW540E 1.01	Press “ENT” button to see the device information and “ESC” to go back to 11-13 manual.
02 IDE2 Master CD-RW TEAC	Use arrow button to select another device or press “ESC” to go back to 11-13 manual.
CD-R CDW540E 1.01	Press “ENT” button to see the device information and “ESC” to go back to 11-13 manual.
03 IDE3 Master CD-RW TEAC	Using arrow button to select another device or press “ESC” to go back 11-13 manual.
CD-R CDW540E 1.01	Press “ENT” button to see the device information and “ESC” to go back to 11-13 manual.

3.11.14 System Info

This function will show the system of information on the LCD.

System Info	Press “ENT” button to enter the “System Info” and see the next information, press “ESC” to exit.
-------------	--

SST: 39SF020 CD Duplicator	SST: 39SF020 2001 / 11 / 16	The LCD shows EZCD2-3 as on the left.
CD Duplicator 1-7 ver: 1.10T	WINBOND: W49F002U 2001 / 11 / 16 ACARD	The LCD shows EZCD2-7 as on the left.

3.11.15 Quick Erase

This function will quick erase the data on the CD-RW disc. It will take a short time to do so.

11-13. Setup Quick Erase	Press "ENT" button to enter the "Quick Erase" and "ESC" to exit.
All data will be lost, erase? Yes	Use arrow button to change "Yes" or "No" setting then press "ENT" or press "ESC" to go back to 11-15 manual.
Erasing disc 00:24 (Quick)	LCD will show the process of the disc erasing.
Quick Erase OK:01 Fail:00	When erasing disc is finished, the LCD will show the message as on the left. Press "ESC" to go back to 11-15 manual.

3.11.16 Full Erase

This function will full erase the data on the CD-RW disc. As it will completely erase the data on the disc, this function will take a minute to do so.

11-16. Setup Full Erase	Press "ENT" button to enter the "Full Erase" and "ESC" to exit.
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All data will be lost, erase? Yes
Erasing disc 03:24 (Full)
Full Erase OK:01 Fail:00

Use arrow button to change “Yes” or “No” setting then press “ENT” or press “ESC” to go back to 11-16 manual.

LCD will show the process of the disc erasing.

When erasing disc is finished, the LCD will show the message as left. Press “ESC” to go back to 11-16 manual

3.12 Adv Setup

Some of advance setup function allows user to change the system configuration. Changes should be made only when you are fully familiar with the function. To enter the function, please **press “ESC” button for 2 seconds**.

3.12.1 Buffer Under Run Protect

This setting control will turn “On” and “Off” the Buffer Under Run Protection (for example Burn Proof, SafeBurn, JustLink, Seamless Link...etc). The default setting is “On”.

12-01. Adv Setup UnderRun Protect
UnderRun Protect On

Press “ENT” button to enter “UnderRun Protect” and “ESC” to exit.

Use arrow button to change “On” or “Off” setting then press “ENT” or press “ESC” to go back to 12-01 manual.

3.12.2 Overburn

This setting controls turns on the CD writer which has overburn function. Default setting is “Off”.

12-02. Adv Setup Overburn

Press “ENT” button to enter “Overburn” and “ESC” to exit.

Overburn On

Use arrow button to change “On” or “Off” setting then press “ENT” or press “ESC” to go back to 12-02 manual.

3.12.3 Read Error Skip

This setting controls error skipping during source reading. The default setting is “Off”. When an error is detected during source loading, the duplicator will stop to load and display read error message. If the setting is “On”, there will be no message shown even if there is an error in reading. You can use this function to copy some CD with errors.

12-03. Adv Setup Read Error Skip

Press “ENT” button to enter “Read Error Skip” and “ESC” to exit.

Read Error Skip Off

Use arrow button to change “On” or “Off” setting then press “ENT” or press “ESC” to go back to 12-03 manual.

3.12.4 Format Hard Disk

This setting control will initiate the hard drive and delete all of the Images.

12-04. Adv Setup Format HDD

Press “ENT” button to enter “Format HDD” and “ESC” to exit.

All data will be lost, format? Yes

Use arrow button to change “Yes” or “No” setting then press “ENT” or press “ESC” to go back to 12-04 manual.

There is no HDD!

If the system is not connected with a hard drive, the LCD will show the message as on the left.

3.12.5 Verify HDD

This will verify the target of entire Hard Drive or any selected partitions of hard drive if it can read correctly.

12-03. Adv Setup Verify HDD	Press "ENT" button to enter "Verify HDD" and "ESC" to exit.
Verify Disk or Partition? Disk	Use arrow button to change setting to "Disc" then press "ENT" or press "ESC" to go back to 12-05 manual.
Verify Disk or Partition? Parti	Use arrow button to change setting to "Parti" then press "ENT" or press "ESC" to go back to 12-05 manual.

3.12.6 Burn-in

This function is a burn-in test function. It will run the emulate writer function continuously. Between each cycle of emulate write, the CD discs in CD writers will be ejected automatically and re-inserted again for continuous testing.

12-06. Adv Setup Burn-in	Press "ENT" button to enter "Burn-in" and "ESC" to exit.
Burn-in Test	The data will not be written on the blank CD discs and the discs will remain blank after test.
Sel burn-in num: Run Continuous	"RunContinuous", "1~10", "10~100", "100~1000" setting. Press "ENT" or "ESC" button to go back to 12-06 manual.
Burn-in Erase&Copy	The system will repeat to erase and write on the CD-RW discs. It is only for CD-RW discs to do rewriteable.

Sel burn-in num:
Run Continuous

“RunContinuous”, “1~10”, “10~100”, “100~1000” setting. Press “ENT” or “ESC” button to go back 12-06 manual.

3.12.7 Update Firmware

This function will update your firmware to the latest one. Place the CD disc which contains the latest firmware data (firmware CD disc) into CD-ROM drive. The duplicator will find the data and update its firmware automatically. During updating, do not turn off the power of the machine since the update will not be finished until the machine resets itself.

Procedures to make the firmware CD disc by yourself.

1. Get the firmware from CalOptic through e-mail or directly download from web site: <http://www.caloptic.com>

2. Unzip the firmware you have and write the file “**cdxxx.bin**” into the root directory of blank CD-R or CD-RW disc. The session for this CD has to be closed. If the same CD disc still has capacity to add more data, it can be used to store newer versions of the firmware. When updating the firmware program from the CD, only the one in the last session will be used. Other versions in previous sessions will be ignored.

12-07. Adv Setup
Update Firmware

Select source drive to CD-ROM first! Then press “ENT” button to enter “Update Firmware” and “ESC” to exit.

Searching F/W---
XXX/XXXXXX

CD and the LCD will show the process as left. Once the new firmware is located, just press “ENT” button. The system will update it.

3.12.8 Compare Firmware

This function will compare the current firmware version and the firmware version that is placed into the CD-ROM.

12-08. Adv Setup
Compare Firmware

Press “ENT” button to enter “Compare Firmware” and “ESC” to exit.

3.12.9 H/W Diagnostic

This function will detect what devices are connected with the control. The LCD will show the information of the hardware.

12-09. Adv Setup H/W Diagnostic
↑↓Enter ESC Hold ESC to exit

Press "ENT" button to enter "H/W Diagnostic" and "ESC" to exit.

LCD will ask user to do the button test. Following the LCD instruction to test each function button.

After the button function testing, the system will self-test SDRAM, the hardware connecting test, and the flash test. Every testing process will be shown on the LCD. It takes a minute to get the results of hardware diagnostics. It is an easy way to know if the system is working properly.

Test finished

When testing is finished, the LCD will show the "Test finished" message. Press "ESC" button to go back to 12-09 manual.

3.12.10 Load Default

This function will reset the whole previous setting back to factory's default setting. Different settings will cause duplicator to react differently.

12-10. Adv Setup Load Default
Load Default Config? Yes
Load Default OK

Press "ENT" button to enter "Load Default" and "ESC" to exit.

Use arrow button to change setting. When "Yes" is selected, the duplicator will return to factory's default setting.

The LCD message will show the setting have been changed by "OK" as on the left.

Chapter 4 Trouble Shooting

1. No display on LCD or the unit does not operate when power is on.

- Please check to make sure the connection of power cable and the environment of power outlet is normal.

2. LCD shows the Error message.

- During operation like Copy, Test, Compare and Verify, you may press ESC button to abort the operation. An Error message will be shown on the LCD. On some CD writers, aborting will cause the duplicator to hang up and you will have to re-start to return to normal operation.

- Failed reading may cause the error message shown on the LCD display. Change the master CD to try again.

- During operation, if read error, buffer under run or writing error occurs, the LCD will show error message like: Pass xx, failed xx.

- If there is no device connected nor detected by the duplicator during power-on, the duplicator will show error message on LCD before entering the main menu.

3. CD-ROM can not read disc and shows error message.

- Check the format of master CD or master CD itself for damage.

- Use any of the CD-Writers to read the master.

4. Buttons do not function.

- May be still busy on task.

- Button malfunction.

- Faulty board.

3. Copy completed but CD-R disc is not readable.

- Use compare function to check.

- Try using a different CDR blank disc.

6. The failure rate is high.

- Lower the speed of CD-Writers and try again.

- Quality of blank disc is poor.

- Check for latest firmware version.

- Check the CD-Writer maximum writing speed. For anything over 24X writing process, please copy to hard drive first then to CD.

7. Cannot boot-up or fail to upgrade firmware.

- Contact your dealer to solve the problem. Please note you may be charged for this.

- Make sure the BIOS program is correct since customer will normally download the wrong program or simply write the zipped file to CD, which should be first unzipped before writing.

- Failed upgrade might cause failed boot. This can only be resolved by returning the control board to the dealer or the factory directly. It is not necessary to return the whole system under failed upgrade.

8. Cannot find “12. Adv Setup” function.

- Press the “ESC” button for 2 seconds to enter the “Adv Setup”.

9. To cancel the duplicator working process.

- Press “ESC” button for 2 seconds to cancel any “Copy”, “Test”, or “Verify” etc. function while the job is progress.

Appendix 1

- 1. Copy
- 2. Test
- 3. Test&Copy
- 4. Verify
- 5. Compare
- 6. Prescan
- 7. Disc Info
- 8. Select Source
- 9. Image
 - 9.01 Load (If there is an image exist in current partition, ask overwrite it or select another partition)
 - 9.02 Delete Image
 - 9.03 Image Info
 - 9.04 Compare Image
 - 9.05 Select Image (Size of each partition is 1GB)
 - 9.06 Image Src Drive (Select which drive to load image)
- 10. Edit Track (For AUDIO disc only)
 - 10.01 CD to CD Edit
 - 10.02 CD to HDD Edit
 - 10.03 Play Audio Track
 - 10.04 Close Session
- 11. Setup
 - 11.01 Language (LCD Type: English)
 - 11.02 Burn Speed (If no disc in CD-RW, list all supported speed else list speed supported by disc)
 - 11.03 Read Speed 100ms/0s
 - 11.04 Auto Start Drive (If ready CD-RW number equals to this value, auto start to copy or test)
 - 11.05 Startup Menu
 - 11.06 Auto Verify On
 - 11.07 Auto Compare On
 - 11.08 Auto Prescan On
 - 11.09 Eject Disc Select Good 0 Eject All Disc 1 On Not Spec
 - 11.10 Burn On The Fly Off
 - 11.11 Burn Mode DAO TAO
 - 11.12 Button Sound On
 - 11.13 Device Info
 - 11.14 System Info
 - 11.15 Quick Erase
 - 11.16 Full Erase
- 12. Adv Setup Press ESC 2 seconds to enter this menu
 - 12.01 UnderRun Protect Off
 - 12.02 Overburn On
 - 12.03 Read Error Skip On
 - 12.04 Format HDD
 - 12.05 Verify HDD
 - 12.06 Burn-in
 - 12.06-01 Erase&Copy
 - 12.06-02 Test
 - 12.07 Update Firmware (Update new version firmware from CD-ROM or ISO-IMG)
 - 12.08 Compare Firmware
 - 12.09 H/W Diagnostic
 - 12.10 Load Default (Restore System default config)

: Meaning default setting

Appendix 2 LCD Message List

Normal LCD Message List

Message	Description
Initialize SDRAM	Initialize the memory on the system
Detect Drives	Detect what drives is connected with the system
User Abort!	While the function is working, cancel the job
Analyzing....	Analyzing the source disc
Source Drive Not Ready	Source drive is not ready to read
Target Drive Not Ready	Target drive is not ready to write
Source Disc Not Ready	Source disc in not ready for reading
Target Disc Not Ready	Target drive is not ready for writing
Erasing disc	System is erasing the data on the CD-RW disc
Fail to get Drive Info!	The drive information cannot be recognized
Fail to get Src Disc Info!	Cannot read the information from CD disc
Save new config Fail!	The new setting of configuration can not be saved
Load Default Config?	Loading the factory default setting
Src&Tgt can't in the same channel	When doing the comparing, the source and target cannot be in the same channel
Preparing.....	System is preparing the data and devices connecting for CD recording
Check Target Please Wait.....	System is checking the target device, wait for a while
Audio Disc!!! Can't compare!	Audio disc cannot do the comparing
Identical	After comparing, the contents of CDs are the same
Read disc error	During the comparing, there is a disc read error
Cannot read TOC	CD's TOC data cannot read
TOC not match	After comparing, the source and target device' s TOC does not match
Source Disc Empty !!!	The source CD is blank without data
Target overflow	The target of CD do not have enough space to record the source

Target Disc Not Empty!!!	The target of disc is not empty to record
Press a Key to Eject Good Disc	Press any key to eject the good disc after the recording process
Press a Key to Eject Fail Disc	Press any key to eject the failed disc after the recording process
CD-RW does not Support the Func	CD-RW device cannot support this function
Hold ESC to exit	Press "ESC" for a second to terminate the testing
All data will be lost, erase?	All data on the CD disc will be lost. Confirmation to erase the CD-RW disc
Erase Finished	CD-RW disc have been erased
No Erasable Disc in CD-RW!!	The CD discs in the CD-RW devices is not an erasable disc

The Message of Connecting Hard Drive with Image Loading

Message	Description
HDD not Format!	CD's TOC data cannot be read
Format HDD?	After comparing, the source and target device' s TOC does not match
All data will be lost, format?	All data on the hard drive will be lost. Confirmation of the formatting of the hard drive
Format HDD OK!	Formatting hard drive have been done
Image load OK	The image have been loaded from CD to hard drive
Image load Fail	The image failed to load from CD to hard drive
HDD too small to handle image!	The hard drive does not have enough space to store the data image (at least 1Gbytes)
No Valid HDD!	The system cannot find a valid hard drive
HDD too small	The space of the hard drive is too small
No Image in Partition Xx	In partition xx, there is no data image
Image Exists Overwrite?	In current partition, there exists a data image. The confirmation of overwriting the existing data image partition
Delete Image in Partition xx?	Deleting the data image in partition xx
Partition Damage	The image partition have been damaged
Verify Disk or Partition?	Verify the entire hard drive or just particular partition data image (at least 1Gbytes)
Verify Hard Disk OK!	Verify the hard drive successfully
Verify Hard Disk Fail!	Failing to verify the hard drive
Verify Partition Header!	Verify the partition header
Select HD First!	For this function, there must be a selected formatted hard drive

The Message of Audio Edit

Message	Description
Lost selected Tracks?	Abort the tracks selected and delete it
End edit disc and burn?	Finishing the music disc edit and start to record the CD
Continue edit next Disc?	Asking to continue editing next music disc or not
Target Overflow Re-Select	The CD disc space is not enough to record the selected tracks, please re-select it.

Close all discs session?	Closing the disc's session and cannot record any further data
Can't edit HDD	The hard drive cannot edit as a source audio CD
No AUDIO track in this disc	The source of CD disc cannot find a audio track
Insert next disc	Asking to insert the next audio disc
Sessions were closed already!	The sessions have been closed already
Burn or Move to partition?	Confirmation of direct burning to CD disc or move the data to the partition
Tgt overflow, del last trk?	The CD disc space is not enough to record the selected tracks, asking to delete the last track.
Ins empty disc Continue?	Asking to insert an empty disc and continue the process

The Message of Firmware Update:

Message	Description
Invalid firmware Disc	The disc does not contain a valid firmware
Updating F/W	Firmware is updating
Update F/W xxxx to yyyy?	Confirmation of updating firmware version from xxxx to yyyy
Searching F/W...	Searching for a valid firmware
Check Sum Error!	The firmware check sum error
Source can't be Hard Disk!	During the firmware compare, the source cannot be the hard drive
Last update F/W OK!	The last update firmware is successful
Last update F/W Fail!	The last update firmware is fail
Flash ROM fail!	The Flash ROM failed to write