TEAC®

# *CD-W58E CD-RW Drive*

## *User's manual*

To ensure the smooth handling of your warranty please write the serial number of your drive into the box. In the case of warranty you are expected to send it together with a copy of your invoice to your nearest TEAC sales representative.

- Changes in specifications and features may be made without notice or obligation.

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First edition: December 2000
- Company and product names provided herein are trademarks of their respective companies.

# CONTENTS

TO THE USER ..... 28

SAFETY CONSIDERATIONS RELATING TO THE FCC RULE PART 15 ..... 29

SAFETY CONSIDERATIONS RELATED TO LASER PRODUCTS 30

1. COMPONENTS ..... 32

2. SYSTEM REQUIREMENTS ..... 33

3. PRECAUTIONS FOR INSTALLATION AND OPERATION ..... 34

4. CONTROLS AND FUNCTIONS ..... 36
   4.1 Front Panel ..... 36
   4.2 Rear panel ..... 38

5. CONNECTION TO A PERSONAL COMPUTER ..... 41
   5.1 Drive Installation Directions ..... 41
   5.2 Installation/Connection to Your Personal Computer ..... 41

6. CONNECTION TO AUDIO EQUIPMENT ..... 42

7. INSTALLING DRIVERS AND THE WRITER SOFTWARE ..... 43
   7.1 Installing Drivers with Windows 95/98 ..... 43
   7.2 Installing Drivers with Windows NT 4.0 and OS/2 ..... 43
   7.3 Compatibility or Interoperability to Other IDE Devices ..... 44

8. TECHNICAL SUPPORT ..... 44
   8.1 Product Warranty ..... 44
   8.2 Technical Service Depots (Europe) ..... 45

9. SPECIFICATIONS ..... 46

WARRANTY ..... 47

ENGLISH

# TO THE USER

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against interference in a residential area. This device generates and uses radio frequency energy and if not installed and used in accordance with the instructions, it may cause interference to radio or TV reception. If this unit does cause interference with TV or radio reception, you can try to correct the interference by one or more of the following measures:

(a) Reorient or relocate the receiving antenna.
(b) Increase the separation between the equipment and the receiver.
(c) Plug the equipment into a different outlet so that it is not on the same circuit as the receiver.
(d) Consult the dealer or an experienced radio/TV technician for help.

**CAUTION**
Changes or modifications to this equipment not expressly approved by TEAC CORPORATION for compliance could void the user's authority to operate this equipment.

To ensure that the use of this product does not contribute to interference, it is necessary to use shielded I/O cables.

# SAFETY CONSIDERATIONS RELATING TO THE FCC RULE PART 15

ENGLISH

**Declaration of Conformity**

| | |
|---|---|
| Model Number: | CD-W58E |
| Trade Name: | TEAC |
| Responsible party: | TEAC AMERICA, INC. |
| Address : | 7733 Telegraph Road, Montebello, California, U.S.A. |
| Telephone Number: | 1-213-726-0303 |

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference,

and

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

# SAFETY CONSIDERATIONS RELATED TO LASER PRODUCTS

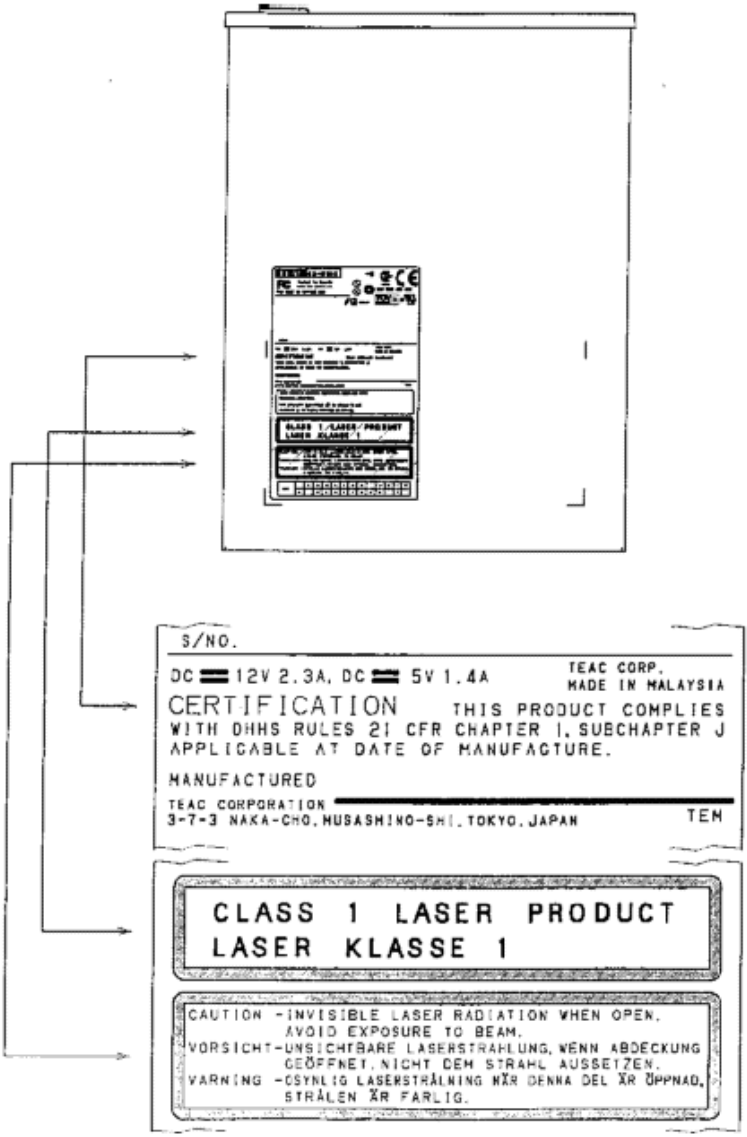
This product has been designed and manufactured according to FDA regulations „title 21, CFR, chapter1, subchapter J. based on the radiation Control for Health and Safety Act of 1968", and is classified as a class 1 laser product. There is no hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings.

**CAUTION**
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

**Important:**
If the protective hausing of the device listed above is opened without the consideration of the appropriate processing, serious injuries may result caused by the effect of the laser beam.

**Optical pickup**

| | |
|---|---|
| Type: | KRS-202A |
| Manufacturer: | SONY CORPORATION |
| Laser output: | Less than 0.1mW (Play) and 32mW (Record) on the objective lens |
| Wavelength: | 777nm - 787nm |

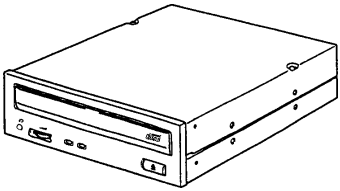



Label with safety remarks on your device

# 1. COMPONENTS

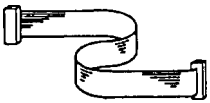
With a reading speed factor of approx. 32 the CD-W58E is a modern high performance CD-RW drive system. It is able to write to CD-R media with a writing speed of single, 2X, 4X, and 8X. Furthermore it is able to write to CD-RW media (4X compatible) with a writing speed of single, 2X, and 4X and to write to CD-RW media ("high speed") with a writing speed of 4X and 8X. The drive is shipped with the following components. Open the packing box and confirm that none of the parts are missing.

① CD-W58E CD-RW Drive



⑦ Mounting screws (M3x5)

③ Interface cable



④ Audio cable

⑤ CD-W58E User's manual

TEAC

CD-W58E CD-RW-Laufwerk

Handbuch

⑥ CD-W58E Warranty card (printed on last page)

For any other accessories please refer to the printed notes on the packaging.

**Hint:**
The kit version can be identified if the product name ends with the letter "K".

# 2. SYSTEM REQUIREMENTS



Your TEAC CD-RW drive supports all major operating systems (with the exception of MS-DOS and Windows 3.1x) and all major hardware platforms. To get the full performance it is recommended to use a system environment whichs computing power is equivalent to an IBM compatible PC with a Pentium CPU with 90 MHz clock frequency or more, 16 MByte RAM or more and a fixed disk with an access time of 12 ms or less.

**Important:**

1. To use the TEAC CD-RW drive, an IDE (ATAPI) controller is required. The necessary drivers are shipped with the corresponding controller card or they are available from the manufacturer of the controller.

2. Please do not install your TEAC CD-RW drive near sources of radiating heat like hard disks.

**Selecting the CD-R/CD-RW media for your TEAC CD-RW drive**

The best results and the highest performance are ensured by using TEAC CD-R/CD-RW media. Your dealer will tell you the sources of the respective CD-Rs and CD-RWs. A current list including supported media can be found at www.teac.de/support.

# 3. PRECAUTIONS FOR INSTALLATION AND OPERATION

**Installation**

Avoid installation in places with

- high rates of moisture
- temperatures above the specified maximum
- large temperature differences
- large amounts of dust and dirt
- vibrations and
- direct exposure to sun light.

**Operation**

Do not operate your TEAC CD-RW drive under operating conditions other than listed in 8. Specifications. If you believe your TEAC CD-RW drive to be defective please contact your dealer or any of the TEAC facilities.

**Important Hints for Using the CD-RW Drive**

What is stated in the specification must be observed for the user to get the most out of the drive. Especially, the following precautions must be observed for quality of recording.

(a) Be careful about the use of the disk. What is stated by the disk manufacturer must be observed for the usage.

(b) Don't let the disk and the tray become dirty.
- – Check to see that the disk is bereft of scratch, dust, fingerprint or any other dirt.
- – Check to see that the disk tray is clean. If the disk tray becomes dirty, clean it.
- – If the disk becomes dirty, clean it as recommended by the disk manufacturer. The disk surface is apt to be damaged, so it must be cleaned only as per instruction.

(c) Avoid vibration or impact.
During recording or playing, don't subject the drive to vibration or impact. Vibration or impact especially during recording can result in poor recording. The following problems also can result occasionally :
- The disk becomes defective because of faulty recording, and cannot be played back.
- Additional recording cannot be made because of faulty previous recording.

(d) Data protection
Recording may not be completed normally in some cases due to a malfunction of the drive, a defective medium, etc. Therefore, use the following precautions.
- Be sure to confirm the recording status by playing back the newly recorded data after completing the recording operation.
- Be sure to store the source file from which the data is recorded until the recording is confirmed.
- Do not repair the drive or replace a part of the drive under circumstances other than designated assurance conditions.

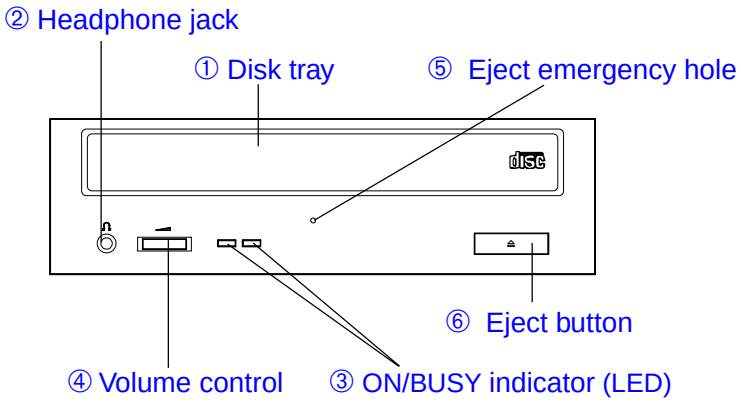
**Cleaning and maintenance of your TEAC CD-RW drive**

TEAC CD-RW drive will not need maintenance if used as specified in this manual. Usually there are only problems with dirty or defective CDs.

**Important:**
Do not use cleaning CDs which will remove dirt of the lense of the laser aided by a little brush. Do not clean the inner parts of your TEAC CD-RW drive with compressed air. Do not use the wet-type lens cleaner. Any of these methods may cause damage to your TEAC CD-RW drive.

# 4. CONTROLS AND FUNCTIONS

## 4.1 Front Panel




① Disk tray
Insert the disk with its label facing up.

**Note:**
Please ensure the CD is inserted in a way where the plugs at the rear of the disk tray and the spring loaded plug on the front prevent the disk from falling out of the tray. This is of major importance if the drive is used in one of the vertical positions.
When using an 8cm-CD disk in horizontal position, place it on the specified position at the center of the tray. Never use it in the vertical position.

② Headphone jack (ø 3.5mm)
Audio output jack for stereo headphone or external speakers.
Use a 3.5mm-diameter stereo mini-plug.

③ ON/BUSY indicator
The indicator LEDs light in Seek, Play, Read, and Write operation. In the following table you will find a list including a description of the different drive states and their associated indicator states.

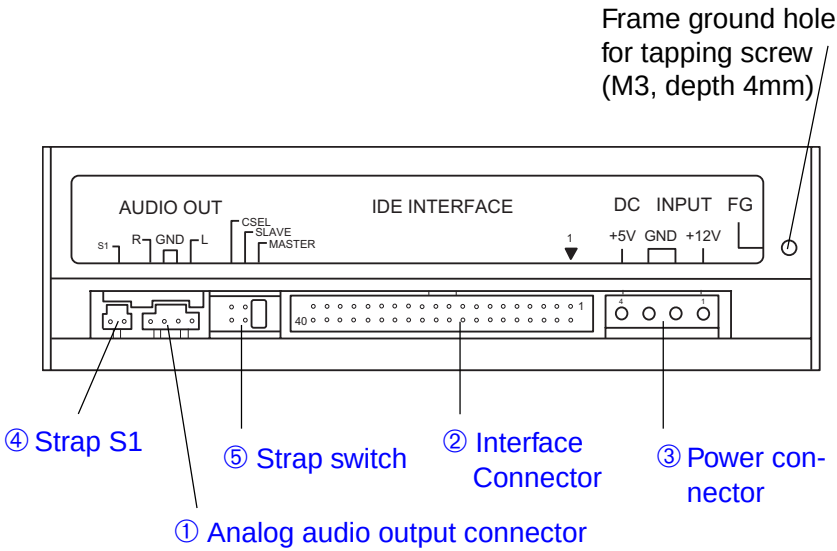
| Operation | left LED | right LED |
|---|---|---|
| At tray loading | OFF | Green LED flashes (0,25sec interval) |
| At tray eject | OFF | Green LED flashes (0,25sec interval) |
| During write | Green LED flashes (1,5sec interval) | OFF |
| During Audio Play | OFF | Green LED flashes (1,5sec interval) |
| During Seek/Data Transfer | OFF | Green LED lights |
| At start | OFF | Green LED flashes (0,5sec interval) |
| Self-diagnosis error/ Start error | OFF | Green LED flashes (0,25sec interval) |

④ Volume control
Adjusts headphone's volume.

⑤ Eject emergency hole
When the power is switched OFF and the eject button does NOT function, insert a metal rod (diameter of 1.2mm or less) into this hole at a right angle to the front panel, then push the rod to eject the disk. Do this only when the device is switched off and the ON/ BUSY indicator is NOT lit.

⑥ Eject button
Press this button to open or close the disk tray.

## 4.2 Rear panel




① Analog Audio output connector
For stereo audio signal output.
When driving external speakers, connect this connector to the audio input connector on the Sound Card or Interface Card.

**Note:**
Mating connectors: Molex 53103-0450 or equivalent.

| Connector No. | Audio signal |
|---|---|
| 1 | L ch Signal |
| 2 | Ground |
| 3 | Ground |
| 4 | R ch Signal |

② Interface connector
Connect to the IDE interface card using the 40-pin flat cable.
Cable-side mating connectors: 5320-40AGS1 Molex, or equivalent.

③ Power connector

Connect to the +5 VDC and +12 VDC power source.

Cable-side mating housing: 8981-4P Molex

Cable-side mating terminal: 8980-3L Molex

Current consumption

| | 12V | 5V |
|---|---|---|
| Standby | 10mA | 300mA |
| Read | 1.0A | 1.4A |
| Start | 1.7A | 1.2A |
| Seek | 2.3A | 1.4A |
| Write | 500mA | 900mA |

Power interface connector pin number

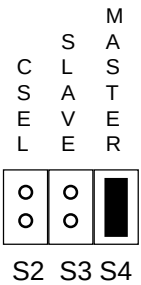
| Pin No. | Power |
|---|---|
| 1 | +12VDC |
| 2 | 0V |
| 3 | 0V |
| 4 | +5VDC |

④ Strap (S1)

Strap S1 is reserved. To avoid erroneous operation do not set a jumper in this position.

⑤ CSEL bypass (S2), Slave (S3), Master (S4) straps switch

The strap (jumper) is factory-preset as shown below:



With S2 open (jumper not set) the TEAC CD-W58E ist set to single or slave mode by setting the jumpers S3 and S4. The set mode is irrespective of the CSEL signal. Master/slave mode is determined by CSEL if S2 is shorted (jumper set). In this case S3 and S4 are irrespective for setting the mode.

**Note:**
When setting modes using these straps, be sure to switch off the CD-RW drive before doing so.

| S2 | S3 | S4 | Remarks |
|---|---|---|---|
| X | – | – | **CSEL**. Master or Slave drive is set by using CSEL terminal. |
| – | X | – | **Slave** |
| – | – | X | **Master** |

Remark: X: Strap shorted
–: Strap open

# 5. CONNECTION TO A PERSONAL COMPUTER

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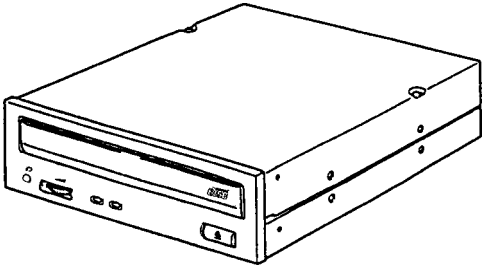
## 5.1 Drive Installation Directions

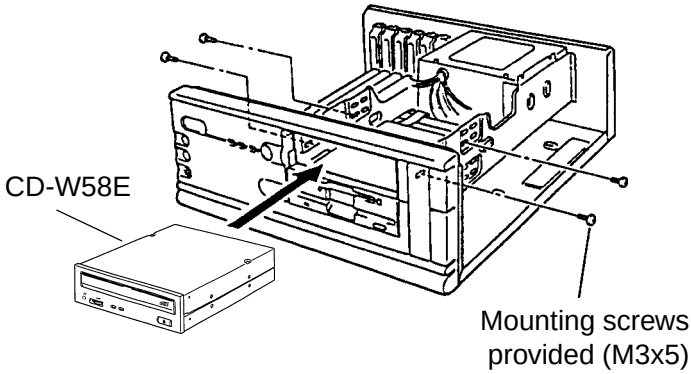
There are three possible positions for installation: Horizontal installation with the eject button to the right, and vertical installation in both possible directions. The installation position is not allowed to be tilted more than 10 degrees out of the vertical or horizontal position.



**Note:**
Please use for the installation the fixing holes in the sides or on the bottom of the CD-RW drive.

## 5.2 Installation/Connection to Your Personal Computer

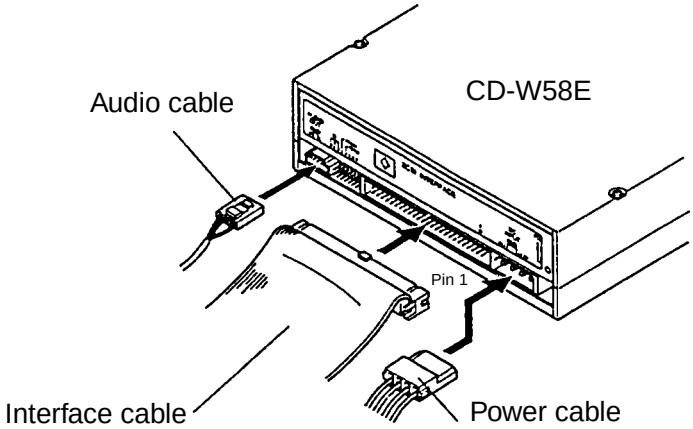
(1) Switch OFF the personal computer and remove the blank panel fitted to the front of the 5.25-inch slot, then secure the CD-W58E using the provided screws.



If the mounting rails are necessary for installation in a personal computer, contact the personal computer maker or dealer.

**Note:**
Be sure to use mounting screws provided. If longer than specified screw is used, the CD-W58E may be damaged. Please ensure to set the master or slave jumpers correctly.

(2) Connect the power cable, the interface cable of the IDE interface card and the audio cable to the CD-W58E, respectively.




**Note:**
The interface connector and the audio connector are polarized. Be sure Pin 1 on all cable connectors match with drive connectors.

# 6. CONNECTION TO AUDIO EQUIPMENT

The CD-W58E can output the LINE OUT audio signal through the headphone jack via the Sound Card.

# 7. INSTALLING DRIVERS AND THE WRITER SOFTWARE

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As a general precaution the installation of the hardware has to be carried out as described before. The software installation starts with activating the reading functionality of the drive as this is well known with any conventional CD-ROM drive. If the reading functionality is available the next installation step is to achieve the writing functionality provided of the writer software. More details according the installation of your writer software you will find in its manual.

## 7.1 Installing Drivers with Windows 95/98

According to the Plug-and-Play conventions the CD-RW drive is recognized as a standard CD-ROM drive first. To make this possible the drives hardware installation must have been carried out correctly. After switching on your computer, Windows 95/98 will install the necessary driver automatically.

**Caution:**
Do not install any additional drivers with Windows 95/98.

## 7.2 Installing Drivers with Windows NT 4.0 and OS/2

After installing the hardware, the reading functionality of the CD-RW drive is activated with installing the drivers shipped with the corresponding operating system. The drivers may be configured and activated aided by the system control. Please refer to the manual of your operating system for any details.

### 7.3 Compatibility or Interoperability to Other IDE Devices

If there are any problems if other drives are connected to the same IDE port (especially IDE-Changer, Phase Change Drive, IOMEGA, and others), the CD-W58E has to be connected as master as a single drive.

## 8. TECHNICAL SUPPORT

In case the CD-W58E does not operate normally in the environment specified in this manual, contact the representative from whom you purchased the drive or our nearest sales office to you.

### 8.1 Product Warranty

One year following the purchase of this unit is the guarantee period. Any failures arising from the design or production of this unit are to be repaired free of charge within one year following purchase. For details, refer to the warranty card provided with the unit.

## 8.2 Technical Service Depots (Europe)

ENGLISH

TEAC Deutschland GmbH, DSPD (Germany)
Technical Support Tel: +49 (0) 180 5 999588 (DM 0.24/min (Germany))

Mo-Fr from 8:00 – 20:00
Sa from 10:00 – 16:00

Technical Support Fax: +49 (0) 611 7158 666
Online RMA: http://www.teac.de/RMA
Internet: http://www.teac.de/support

TEAC UK LIMITED, DSPD (U.K.)
Technical Support Freecall: 08000853704 (U.K. only)

Mo-Fr from 8:00 – 20:00
Sa from 10:00 – 16:00

Technical Support Fax: +49 (0) 611 7158 666
Online RMA: http://www.teac.de/RMA
Internet: http://www.teac.de/support

TEAC FRANCE S.A. (France)
Technical Support Tel: +33 (0) 1 55 59 01 55

Mo-Fr from 9:00 – 16:00

Technical Support Fax: +33 (0) 1 55 59 01 56
Online RMA: http://www.teac.de/RMA
Internet: http://www.teac.de/support
Contact us by email: Support@teac.fr

TEAC Service Centre Poland
Ul. Osiedlowa 31
68-114 Tomaszowo
Technical Support Tel: +48 (0) 68 3606300

Mo-Fr from 9:00 – 16:00

Technical Support Fax: +48 (0) 68 3606309
Online RMA: http://www.teac.de/RMA
Internet: http://www.teac.de/support
Contact us by email: support_pl@ja.teac.de

# 9. SPECIFICATIONS

| | | |
|---|---|---|
| 1. | Disk | |
| | Applicable disk | CD-ROM Mode-1/650 MB/700 MB (32 X CAV)<br>CD-DA/74 min/79 min (20 X CAV (DAE))<br>CD-ROM XA Mode-2 (Form-1)/650 MB/700 MB (32 X CAV)<br>CD-ROM XA Mode-2 (Form-2)/738 MB/795 MB (20 X CAV)<br>CD-RW (8 X CLV)<br>Photo-CD (Multisession), CD-I, Video CD, CD PLUS |
| | Writable disk | 12 cm CD-R /CD-RW<br>The best results and the highest performance are ensured by using TEAC CD-R/CD-RW media. Your dealer will tell you the sources of those CD-Rs/CD-RWs. A current list including supported media can be found at www.teac.de/support. |
| | Disk diameter | 12cm, 8cm |
| | Write methods | Disk at once, Track at once, Session at once, Packet write |
| | Disk rotational speed (32XCAV) | 6,850rpm approx. |
| 2. | Drive performance | |
| | Data transfer rate<br>(Asynchronous transfer) | Sustained: 4.8MB/sec max. (outermost tracks)<br>3.7MB/sec (Average)<br>Program I/O: 16.6MB/sec max. (Default: PIO Mode-4)<br>Burst DMA: 16.6MB/sec max. (Default: MW DMA Mode-2) |
| | Access time | 80msec typical (Random stroke), by TEAC standard |
| | Starting time from power on | 11sec or less (Average) (excluding the multisession photo CD), by TEAC standard |
| | Data buffer capacity | 2MB |
| 3. | Data read error rate | Block/$10^{12}$ bits (Mode-1 and Mode-2, Form-1)<br>Block/$10^{9}$ bits (Mode-2, Form-2 and CD-DA) |
| 4. | Front panel | |
| | Button | Auto eject or Auto inject |
| | Indicator (LED) | Green (left LED), Green (right LED) |
| | Headphone output | Stereo mini-jack (ø 3.5 mm) 0.65±0.3V 32 Ohm |
| | Volume control | Thumb wheel knob |
| 5. | Rear panel | |
| | Rear panel | +5V, +12V |
| | Interface connector | IDE (ATAPI) |
| | Audio output | Line out 0.78±0.3V 47 kOhm |
| | Strap switch | Mode setting straps (Master) |
| 6. | Operating environment | |
| | Place of operation | Temperature 5 to 45°C, humidity 20 to 80% (noncondensing) |
| | Place of storage | Temperature -30 to 60°C, humidity 10 to 80% (noncondensing) |
| 7. | Dimensions/weight | |
| | Dimensions (WHD) | 146 x 42 x 192mm |
| | Weight | 1,200g |
| 8. | Safety standards | UL, CSA, TÜV, CE |
| 9. | Reliability | |
| | MTBF | 100,000 POH (Duty 10%) |

# WARRANTY

Model CD-W58E Serial No. _____

Owner's name _____

Address _____

Dealer's name _____ Date of purchase _____

Dealer's address _____

**Warranty Period**

TEAC Corporation, hereinafter called TEAC, warrants this product against any defect in material and workmanship for one (1) year from the date of purchase by the original retail purchaser. According to the following terms this TEAC product will be repaired without charge of labor and materials by the authorized TEAC service stations, by the authorized TEAC dealers and/or their authorized service stations. TEAC, the authorized TEAC service stations, the authorized TEAC dealers and/or their authorized service stations may decide wether the defective product will be repaired or replaced as a whole or partially. The TEAC dependancies, the authorized TEAC service stations, the authorized TEAC dealers and/or their authorized service stations will also honour this warranty in the other EC and EFTA member states based on the terms in this warranty conditions.

**What is Covered and What is Not Covered.**

Except as specified below, this warranty covers any defects in materials and workmanship of this product. The following are not covered by the warranty:

1. Damage to or deterioration of the external cabinet.
2. Any unit that has been altered or on which the serial number has been defaced, modified, or removed.
3. Damage, deterioration or malfunction resulting from:
   (a) accident, misuse, abuse or neglect;
   (b) failure to follow instructions supplied with the product;

(c) any shipment of the product. Any damage arising of transportation is the liability of the freigth company. Any damage arising of transportation and any implicit and explicit risks are the liability of the freigth company.This is expressivly not a liability of TEAC;
(d) repair or attempted repair by anyone not authorized by TEAC to repair this product;
(e) causes other than product defects, including lack of technical skill, competence or experience of the user. Especially damages which may arise of incidential use respectively by improper ventilation,
(f) damages caused by improper or incorrect installation of software,
(g) periodic check-ups,
(h) maintenance respectively repair of parts due to normal wear and tear,
(i) adoptions or adjustments to the product in order to conform to different national technical or safety standards of any country other than the one for which the product was originally designed and manufactured.

**Who May Enforce the Warranty**
This warranty may be enforced only by the original retail purchaser.

**What We Will Pay For**
We will pay all labor and material expenses for items covered by the warranty. Payment of shipping and insurance charge is discussed in the next section of this warranty.

**How You Can Get Warranty Service**
1. If your unit needs service during the warranty period, please contact the local authorized distributor for this product. If you are unable to locate such a distributor, please contact your TEAC facility at the address indicated below.

2. After identifying the nearest authorized service station for this product the product or any parts believed to be defective must be shipped freight and insurance prepaid to such service station, together with a copy of this warranty certificate and a copy of your sales receipt, showing the date of purchase. Please ensure to fill out the warranty certificate correctly (do not forget the serial number of the product). TEAC reserves the right to refuse the guarantee service if the documents are missing or incomplete in the understanding of this terms. If the necessary repairs are covered by the warranty, and if you have sent the product or parts of it to the nearest authorized service station, the return freight and insurance charges will be prepaid. **Please do not return your unit to the TEAC factory without our prior authorization (see also RMA form)!**

**Limitations of Liability and Exclusion of Implied Warranties**

Unless considered unenforceable or unlawfull under the applicable national law:

1. TEAC's liability for any defective product is limited to repair or replacement of the product, at TEAC's option and the option of authorized service stations, authorized dealers and their authorized service stations. No one is authorized to assume any greater liability on TEACs behalf. TEAC shall not be liable for any damage to any other properties independant of their virtual or real nature especially there is no liability for any damage to any kind of software and/or any kind of databases caused by TEAC products. Furthermore TEAC is not liable for damages arising out of loss of use, loss of revenue or profits, or any other damages, wether incidential, consequential, or otherwise.
2. All implied warranties or conditions, including but not limited to warranties or conditions of merchantability and fitness for a particular purpose, hereby are excluded.

These warranty terms do not affect any statutory rights of consumers which were granted by the respective national laws.

**TEAC Deutschland GmbH**, DSPD:
Bahnstraße 12, 65205 Wiesbaden-Erbenheim, Germany
Tel: +49 (0) 611 71580  Fax: +49 (0) 611 7158392
Internet: www.teac.de

**TEAC UK LIMITED** DATA STORAGE PRODUCTS DIVISION:
5 Marlin House, Marlin Meadow, Croxely Business Park,
Watford, Hertfordshire, WD18 8TE, U.K.
Tel: +44 (1) 923 225235  Fax: +44 (1) 0923 236290

**TEAC FRANCE S.A.**
17 rue Alexis de Tocqueville, CE 005,
92182 ANTONY CEDEX, France
Tel:+33 (0) 142370102  Fax: +33 (0) 142376545

# GARANTIE

| Modell | Seriennummer |
|---|---|
| CD-W58E | |

Name des Eigentümers _____

Adresse _____

Name des Händlers _____ Kaufdatum _____

Adresse des Händlers _____

**Dauer der Gewährleistung**
TEAC Corporation, nachfolgend TEAC genannt, gewährt dem Erstkäufer für dieses Produkt ab dem Datum des Kaufs ein (1) Jahr Garantie bezüglich jedes etwaigen Defekts an Material und Herstellung. Gemäß der nachstehenden Bedingungen wird das betreffende TEAC Produkt von den autorisierten TEAC Servicestellen, den autorisierten Facheinzelhändlern oder den autorisierten Servicestellen der Facheinzelhändler ohne Berechnung von Material- und Arbeitskosten repariert. Die Servicestelle entscheidet, ob das Gerät als ganzes oder nur die defekten Teile ausgetauscht werden. Die TEAC Tochtergesellschaften, die autorisierten TEAC Servicestellen und die autorisierten Servicestellen der Facheinzelhändler übernehmen die Garantieleistung in den anderen EG- und EFTA-Mitgliedsstaaten im Rahmen der in dieser Garantie definierten Bestimmungen.

**Gewährleistungsumfang**
Soweit dies nachfolgend nicht ausgeschlossen wird, umfaßt die Gewährleistung alle etwaigen Defekte an Material und Herstellung. Folgendes ist aus dem Gewährleistungsumfang ausdrücklich ausgeschlossen:

1. Schäden am Gehäuse.
2. Geräte, die verändert wurden oder deren Seriennummern verfälscht, verändert oder entfernt wurden.
3. Schäden oder Fehlfunktionen, die auf folgendes zurückzuführen sind:
   (a) Höhere Gewalt, fehlerhafter und/oder nicht bestimmungsgemäßer Gebrauch,
   (b) Gebrauch, der nicht den im Handbuch angegebenen Verfahrensweisen entspricht,
   (c) Transportschäden jedweder Art. Für Transportschäden haftet das Frachtunternehmen. (Alle mit dem Transport verbundenen expliziten und impliziten Risiken sind nicht Bestandteil der Haftung von TEAC.)
   (d) unsachgemäß ausgeführte Reparaturen oder Reparaturversuche durch nicht von TEAC autorisierte Personen und/oder Unternehmen,
   (e) alle Schäden, die nicht unmittelbar als Produktdefekt anzusehen sind, insbesondere Schäden, die durch unsachgemäßen Gebrauch seitens des Anwenders wie beispielsweise unzureichende Kühlluftzufuhr entstanden sind,
   (f) Schäden durch unsachgemäßes Anwenden der Software,
   (g) regelmäßige Inspektionen,
   (h) Wartung bzw. Reparatur von Teilen infolge normalen, betriebsbedingtem Verschleiß,
   (i) Anpassung an national unterschiedliche technische oder sicherheitsrelevante Anforderungen, wenn das Produkt nicht in dem Land eingesetzt wird, für das es ursprünglich konzipiert und hergestellt worden ist.

**Wer kann die Gewährleistung in Anspruch nehmen**
Gewährleistungsansprüche können ausschließlich vom Ersterwerber des Produkts in Anspruch genommen werden.

**Welche Kosten werden übernommen**
TEAC übernimmt die Kosten für die im Rahmen einer Garantiereparatur anfallende Arbeitszeit und die Materialien, die im Rahmen dieser Gewährleistungsbestimmungen definiert sind. Frachtkosten und Versandversicherung werden im folgenden Abschnitt diskutiert.

**Gewährleistungsabwicklung**

1. Falls Ihr Gerät innerhalb der Garantiezeit Service benötigt, wenden Sie sich bitte an Ihren für dieses Produkt autorisierten Fachhändler. Falls Sie in Ihrer Nähe keinen Fachhändler finden, nehmen Sie bitte mit der TEAC Niederlassung Kontakt auf.
2. Ihr Fachhändler teilt Ihnen Namen und Adresse der nächstgelegenen autorisierten Servicestation mit.
   Schicken Sie das Produkt oder die als defekt vermuteten Teile spesenfrei (Fracht- und Versicherungskosten müssen von Ihnen bezahlt werden) an die Servicestation. Fügen Sie bitte eine Kopie des Kaufbelegs bei und füllen Sie die Garantiekarte vollständig aus (mit Angabe der Seriennummer des Geräts). TEAC behält sich vor, Garantieleistungen abzulehnen, falls Garantiekarte und Kaufnachweis nicht im Sinne der vorliegenden Bestimmungen vorgelegt werden. Falls die erforderlichen Reparaturen von den Gewährleistungsbestimmungen abgedeckt sind und das Produkt zur nächstgelegenen Servicestation geschickt wurde, werden die Kosten für Rückfracht und Versicherung freigemacht. **Bitte schicken Sie das Gerät nicht ohne unsere ausdrückliche Zustimmung direkt an TEAC (siehe auch Rücksendeformular).**

**Einschränkungen der Gewährleistung und Ausschluß implizierter Ansprüche**
Soweit dies nicht dem jeweils gültigen national anwendbaren Recht widerspricht, sind folgende Ansprüche ausgeschlossen:

1. TEAC begrenzt seine Leistungspflicht aus der Gewährleistung ausschließlich auf Reparatur oder Ersatz nach freier Wahl von TEAC sowie der autorisierten Servicestellen, der autorisierten Facheinzelhändler und deren autorisierten Servicestellen. Weitergehende Ansprüche sind in vollem Umfang ausgeschlossen. TEAC übernimmt keine Haftung für Schäden an anderen Gegenständen realer oder virtueller Natur, insbesondere an Software und/oder Datenbeständen, die durch Defekte in TEAC Produkten verursacht wurden. Weiterhin sind alle Ansprüche aus Mangel an Benutzbarkeit, entgangenem Umsatz und/oder Gewinn sowie alle anderen impliziten und expliziten Haftungen ausdrücklich ausgeschlossen.
2. Alle impliziten Gewährleistungsansprüche und Vorbehalte, einschließlich solcher, aber nicht beschränkt auf diese, wie die Vermarktbarkeit und/oder die Gebrauchsfähigkeit für einen bestimmten Zweck, werden hiermit explizit ausgeschlossen.

Diese Garantiebestimmungen berühren das national festgelegte Verbraucherrecht nicht.

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