READ ME 24-MAR-2000
ABOUT THIS FILE

This file contains information concerning the use, functioning, and handling of Electronic Technical Manuals (ETM).

If you have installed Acrobat Reader 4.0 or intent to install, please call ETM Tech Support before using this CD-ROM at

800-270-1409.

Problems viewing PDF file - figures are all black

If you are viewing a PDF file and the figures are appearing as black

squares or rectangles you will need to upgrade your Adobe Reader

software to version 4.x. Version 4.x is not supported and will not run

on 16 bit operating systems (Windows 3.x). After upgrading to Adobe

Reader Version 4.x call ETM technical support at (insert numbers) for

assistance in configuring the ETM software to use the new Reader

program.

ABOUT THIS VERSION
This ETM contains unclassified electronic versions of your paper or microfiche technical manuals used to support this system or commodity. The term ETM includes technical manuals (TM), technical bulletins,lubrication orders, modification work orders, and supply bulletins. Check the latest version of DA Pam 25-30, Consolidated Index of Army Publications and Blank Forms, or DA Pam 25-35, (O) Military Publications Index of Communications Security (COMSEC) (U) to ensure that this ETM contains the latest change to individual technical manuals. Changes received after the production cut-off will not be on this version.

This ETM is either system specific or commodity oriented. System specific ETMs are designed to provide unclassified technical manuals to support a single system,

or family of systems, with Operator, Organizational, Direct Support, and General Support maintenance manuals. A system TM configuration is designed to support automotive, electronic, armament, fire control, and test, measurement, and diagnostic equipment subsystems.

Commodity oriented ETMs provide unclassified TMs for a commodity grouping with Operator, Organizational, Direct Support, and General Support maintenance manuals.

This ETM menu is configured to support a system or commodity. There will be some TMs that do not appear on this CD-ROM, e.g., For Official Use Only, classified, or TMs that have not been digitized due to oversized schematics.

These ETMs were designed to support the soldier. If you have suggestions to add or delete technical manuals for systems or commodities, please refer to the Recommended Changes paragraph below.

TECHNICAL MANUAL PLACEMARKS

When you open a TM and a "PLACEMARK" appears that states "The technical publication you asked for has not yet been digitized. Please refer to your paper or microfiche copy as appropriate." This means that the TM was not available for digitization. This TM will be made available on an upcoming the next revision of the CD-ROM you are using. Refer to your hard copy TM as needed.

CHANGE PAGE PLACEMARKS

You will find TM Changes "PLACEMARKED" within a digitized TM if the change was not available for digitization prior to the production cutoff. The cutoff ranges from two to six months prior to production. Refer to your hard copy TM to ensure you are using a TM with the latest changes.

CD-ROM SETS

You will find some system or commodity CD-ROMs that require more than one CD-ROM. These are known as CD-ROM sets. Always start with CD 1 of the set. When you click on a TM that isn't on the CD but is in the title menu, the program will alert you which CD of the set you need to put in the CD reader. The program is written such that you don't have to install the second (or third or fourth) CD.

HANDLING DESCRIPTION

CD-ROMs produced under the US Army Materiel Command Logistics Support Activity will be one of three types: Non-Arms Export Control Act, Arms Export Control Act, or FOR OFFICIAL USE ONLY. Please refer to the CD-ROM label to determine the type of CD-ROM and its appropriate handling description.

If this CD-ROM contains only Non-Arms Export Control Act technical publications, handle the CD-ROM as you would any Non-Arms Export Control Act technical manual.

If this CD-ROM contains the statement, "WARNING - This document contains technical data whose export is restricted by the Arms Export Control Act (22 USC 2751 et seq.) or Executive Order 12470. Violations of these export laws are subject to severe criminal penalties" on the label, this CD-ROM contains Arms Export Control Act technical publications. Do not release or give this CD-ROM to non-military or non-government personnel.

If this CD-ROM contains FOR OFFICIAL USE ONLY (FOUO) technical publications, follow handling and safeguarding requirements found in AR 340-16, Safeguarding For Official Use Only Information. These FOUO technical publications are unclassified documents that are exempted from public disclosure and which should not be given general circulation.

DISTRIBUTION RESTRICTION
CD-ROM developers assign the most restrictive distribution statement of all technical publications found on the CD-ROM. Example - If part of the technical publications are distribution restriction statement A, part are distribution restriction statement B, and one is distribution restriction statement C, the overall CD-ROM is distribution restriction statement B. Please refer to the CD-ROM label to determine the distribution restriction statement for this CD-ROM. Distribute this CD-ROM only as per the following distribution restriction statement as defined by AR 25-30, The Army Integrated Publishing and Printing Program.

Statement A. "Approved for public release; distribution is unlimited."

Statement B. "Distribution authorized to US Government agencies only (for a specific reason). This determination was made on (date). Other requests for this document will be referred to (office symbol and address of proponent)."

Statement C. "Distribution authorized to US Government agencies and their contractorsonly (for a specific reason). This determination was made on (date). Other requests for this document will be referred to (office symbol and address of proponent)."

Statement D. "Distribution authorized to the DOD and DOD contractors only (for a specific reason). This determination was made on (date). Other requests for this document will be referred to (office symbol and address of proponent)."

Statement E. "Further dissemination only as directed by (office symbol and address of proponent) or higher authority. This determination was made on (date).

Statement X. "Distribution authorized to US Government agencies and private individuals or enterprises eligible to obtain export-controlled technical data in accordance with regulations implementing 10 USC 140c. This determination was made on (date). Other requests for this document will be referred to (office symbol and address of proponent)."

OPERATING ENVIRONMENT
The minimum operating environment is Microsoft Windows Version 3.1. This CD-ROM will operate under Windows 95.

INSTALLATION AND OPERATING ENVIRONMENT
1.   Place the ETM CD in the CD-ROM drive.
2.   If you have previously installed an ETM, go to
        step 6.
3.   In Windows 3.1 or Windows for Workgroups 3.11,
        Select File/Run from Program Manager.
        In Windows 95, Select Start/Run from the Taskbar.
4.   Enter (CD-ROM drive letter):\setup
        Example: L:\setup   Click on "OK"
        Follow all instructions that appear on the screen.
5.   The ETM program will create an ETM Program Group
        and an ETM Program Group Icon.
6.   To run the program from Windows 3.1 or
        Windows for Workgroups 3.11, Select the
        ETM Program Group and click on the
        ETM Program Icon.
        In Windows 95, Select Programs from the Start Menu,
        ETM Workgroup, and click on the ETM Program.
7.   When using the Windows95 Adobe Acrobat Reader 3.0

(32-bit) application you may need to do the following:
   a. Single click FILE from the top line menu.
   b. Go to the item labeled PREFERENCES
   c. Go to GENERAL options and deselect the option
       "Smooth text and monochrome images"
   d. Click the OK button.

INSTALLING THE VISUAL BASIC 4 RUNTIME FILES
       The Visual Basic 4 Runtime files will need to be
installed onto your computer system if they have not been
loaded before. These files are needed to run the "WSETM"
and "ETM" applications. To install the VB4 runtime files,
execute the command vb40016.exe in the vb416rt directory on
your weapon system cd. When prompted on the Turbo Zip
Self-Extracting ZIP file screen to extract the files, make sure the
extraction directory is pointing to one of your local drives and not
the CD-ROM drive. If the extraction directory is not correct change
it and then click the "Extract" button to start the Visual Basic 4
Runtime files installation process.

NOTE: Be sure to close all running applications when performing the
VB4 Runtime files installation. Some problems have been encountered
when trying to run the installation with other applications also
running at the same time.

WINFRAME INSTALLATION INSTRUCTIONS

In order to properly install the ETM and WSETM applicatoins onto
a Citrix Winframe server, you must make sure to perform a user
-global installation. To do a user -global installation type
CHANGE USER /INSTALL at a command prompt before installing the
application. This ensures that the .INI and .DLL files are
installed to the %SYSTEMROOT% directory instead of the user's
home WINDOWS directory. After the installation is complete, type
CHANGE USER /EXECUTE to restore .INI file mapping. Now, when a
user starts the application for the first time, the required
.INI and .DLL files are automatically copied to the user's home
WINDOWS directory. For a detailed discussion of the difference
between install mode and execute mode and step-by-step
instructions for installing applications, see Application
Integration in the Solutions Guide. Most 32-bit Windows
applications install in a user -global fashion by default,
even when CHANGE USER /INSTALL is not run because they make use
of WinFrame's Registry, where each new user can have his/her own
Registry settings. 16-bit Windows applications make use of INI

files so they must be installed with CHANGE USER /INSTALL in order
for multiple users to access them. It is recommended that you
always install any windows application, whether 16-bit or 32-bit,
with CHANGE USER /INSTALL. Make sure to revert to execute mode
(CHANGE USER /EXECUTE) when you are finished installing the
application, or any changes will be propagated to all users.
If you need to determine if the system is in execution or
installation mode, type CHANGE USER /QUERY at the command prompt.

WINFRAME TROUBLE SHOOTING

Use the following guidelines to resolve issues many issues surrounding
Visual Basic 4.x applications.

When an application either fails to install or running the .EXE
produces an error stating that a .OCX or .DLL needs to be registered
as system global, you will need to do the following:

.OCX files

1.Log on to the WinFrame server as Administrator into VGA mode.

2.A Run Time error may appear stating which .OCX file is failing.
  This will usually be the .OCX file that needs to be registered
  as system global.

3.Use the REGSVR.EXE, REGSVR16.EXE (16-bit), or REGSVR32.EXE
  (32-bit) commands to register the .OCX file as system global.
  These commands are included on the Weapon System CD in the
  directory called "regsvr".

You should now be able to run or install the application in question
without Run Time error messages appearing. This may have to be done
for multiple .OCX files depending on the types of applications and
their use of the .OCX files.

.DLL Files

1.To register a .DLL as system global, go to the SYSTEM32
  directory and locate the .DLL in question.
2.Type RENAME SAMPLE.DLL TEST.BAK in the SYSTEM32 directory.
3.Copy TEST.BAK to the root of the hard disk drive.
4.Type RENAME TEST.BAK SAMPLE.DLL.
5.Type REGISTER SAMPLE.DLL /S to register SAMPLE.DLL as system
  global.
6.Copy SAMPLE.DLL back to the SYSTEM32 directory.

7. Reboot the machine in order for the changes to take effect on the system.

CHANGES IN VERSION 2.0

* Modified the WSETM application to allow for more than 30 Weapon Systems to be loaded on a server. The new limit is 120.
* Modified the ETM application to display Weapon Systems that have over 250 technical manuals associated with them in the TM list properly.
* Added a line in the TM list on the ETM application to specify the PDF file associated with the TM and the location of the PDF either on the Weapon System CD or on one of the server hard disks.
* Modified the ETM application to allow users the option of accessing the command button operations at the bottom of the form through menu options. The Refresh, Open, Find, and Exit operations can be accessed from the File menu option and the About operation can be accessed from the Help menu option.

DESTRUCTION NOTICE
Send to National Security Agency for destruction.

DESTRUCTION INSTRUCTIONS

(EM coded A)
This CD-ROM is Unclassified, users may send expired ones to a commercial recycling facility. Scratching of disks is not required because CD-ROM is not "Sensitive". Ship "ONLY WHOLE" disk; do not break into pieces. The company below no longer has restrictions on packaging (mailers, sleeves, etc.) or weight. Only costs are shipping/mailing. For this recycling, send CD-ROM disks to RECYCLE, 420 Ashwood Road, Darlington, PA 16115-9325.

(EM coded B, C, D)
National Security Agency (NSA) accepts Distribution Restricted CD-ROMs for destruction and meets environmental standards. If your local facility does not handle CD-ROMs, send expired ones FIRST CLASS to Directors, National Security Agency, 9800 Savage Road, ATTN: CMC S714, Fort George G. Meade, MD 20755-6000.

DESTRUCTION REQUIRED PROCEDURES
Ship ONLY WHOLE discs. Do not send sleeves, mailers, and cases. NO need to scratch discs going to NSA. Maximum box size and weight: 18 inches in height, width, or length and 40 pounds.

Send no more than 10 boxes at a time. If shipper wants receipt, include documentation/destruction form and enter total CD-ROMs in box; if others want receipt, also include self-addressed envelope. SINGLE wrap outside box with brown paper. If loose discs rattle, mark box "Rattle Okay."

VIRUS CHECK
        The CD-ROM pre-master (that's the CD that is used to replicate more CD's) was virus checked using McAfee VirusScan 95 Version 2.03 with monthly updates. This CD-ROM is free of known viruses as of the date of Version 2.03 with updates.

ETM REMOVAL FROM HARD DRIVE
        Follow the instructions listed below to delete the directories created, files coped to drives, and changes made to all Windows and operating system initiation files if you need to delete the CD data from your hard drive.

        Delete the ETM Program Group and ICON from the Windows Program Manager.

        Delete the ETM Directory and Subdirectories (if any) from your hard drive.

        Delete the ETM Section from the WIN.INI file.

        Additionally, the Adobe Acrobat Reader is installed during ETM installation.

        Delete the following items to remove Acrobat Reader from your system.

        Delete the Adobe Acrobat Reader Program Group and ICON from the Windows Program Manager.

        Delete the Acroread Directory and Subdirectories (if any) from your hard drive.

        Delete the Adobe Display Section from the WIN.INI file.

        Delete the following extension in the WIN.INI file.

        PDF=C:\ACROREAD\ACROREAD.EXE ^.PDF

RECOMENDED CHANGES
        You will find a DA Form 2028-2 and instructions for

completion in the menu on this CD-ROM. It is used for you to
make recommended changes to this CD-ROM, for example, a technical
publication isn't linked to the menu, the CD-ROM doesn't do what
it is supposed to do, an obsolete technical manual should be
removed, or you would like to see another technical manual added.

When you have recommended changes to the contents of a
particular technical manual, follow the instructions in the
technical manual and mail it to the appropriate proponent or
e-mail if the TM gives you an e-mail address.

STANDARD
This CD-ROM is ISO 9660 compliant.

TITLE
The title is as it appears on the CD-ROM label. Common
military acronyms are used in the title due to space limitations.

ORIGINATOR
U.S. Army Materiel Command Logistics Support Activity,
Redstone Arsenal, AL.

CLASSIFIED PUBLICATIONS
This CD-ROM does not contain any classified publications.

ORDERING INSTRUCTIONS
This CD-ROM is Department of the Army authenticated.
Request additional copies using DA Pamphlet 25-30. Use the
instructions found in DA Pamphlet 25-30 to order authenticated
CD-ROMs.

POINTS OF CONTACT
Use this point of contact for questions concerning how
the CD-ROM operates.

CONTACT ORGANIZATION: U.S. Army Materiel Command Logistics
Support Activity
CONTACT ADDRESS: Commander, USAMCLOGSA, ATTN: AMXLS-AP(CD-
ROM),
Redstone Arsenal, AL 35898-7466
CONTACT VOICE TELEPHONE: DSN 645-0809, Commercial 256-955-0809
ETM CUSTOMER SERVICE: 1-800-270-1409
CONTACT FACISIMILE: DSN 645-9782, Commercial 256-955-9782
E-MAIL ADDRESS: logetm@logsa.army.mil

CD-ROM users will contact the respective TM proponent

for discussion of individual technical manual related questions.
The TM proponent is found on the first page of the TM.