

ReSource™ AutoMax
Executive Software
Loading Instructions

(M/N 57C396)

(M/N 57C397)

(M/N 57C345)

(M/N 57C346)

(M/N 57C347)

Industrial

CONTROLS

Instruction Manual J2-3047

RELIANCE
ELECTRIC 

The information in this user's manual is subject to change without notice.

WARNING

ONLY QUALIFIED ELECTRICAL PERSONNEL WHO ARE FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF ALL EQUIPMENT IN THE SYSTEM AND THE HAZARDS INVOLVED SHOULD INSTALL, ADJUST, OPERATE, AND/OR SERVICE THIS EQUIPMENT. READ AND UNDERSTAND ALL APPLICABLE MANUALS IN THEIR ENTIRETY BEFORE PROCEEDING. FAILURE TO OBSERVE THIS PRECAUTION COULD RESULT IN BODILY INJURY.

WARNING

THE USER MUST PROVIDE AN EXTERNAL, HARDWIRED EMERGENCY STOP CIRCUIT OUTSIDE THE PROGRAMMABLE CONTROLLER CIRCUITRY. THIS CIRCUIT MUST DISABLE THE SYSTEM IN CASE OF IMPROPER OPERATION. UNCONTROLLED MACHINE OPERATION MAY RESULT IF THIS PROCEDURE IS NOT FOLLOWED. FAILURE TO OBSERVE THIS PRECAUTION COULD RESULT IN BODILY INJURY.

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1.0 INTRODUCTION

The products described in this manual are manufactured or distributed by Reliance Electric Industrial Company.

This installation manual consists of four main sections. The first section is a general introduction that provides system requirements and instructions for making a backup copy of the AutoMax[®] Executive software. The second section describes the procedure for installing the AutoMax Executive software (M/N 57C395, M/N 57C397 (upgrade)) on a personal computer for use by a single user. The third section describes the procedures for installing the AutoMax Executive software (M/N 57C345, M/N 57C346 (upgrade)) on a network to be shared by several users, and how to add network users (M/N 57C347). The last section describes how to run the AutoMax Executive software. See the AutoMax Programming Executive Version 3.3 (J2-3C45) for more information.

In order to run the AutoMax Executive, your personal computer must meet the following minimum requirements:

- Your computer must be an IBM[®]-compatible 80386 with at least 2 MB RAM.
- The operating system for your computer must be version 5.0 (or later) of MS-DOS[™] or equivalent.
- Your computer must have a hard disk with a minimum of 7 MB of free disk space (with Windows[™] 3.1 already installed) to load the AutoMax Executive Software. You will also need additional disk space for your application files.

Before you begin, read carefully the instruction manual for your personal computer, your version of the DOS operating system, and all applicable AutoMax instruction manuals. If you have not already done so, load DOS and Microsoft[™] Windows onto the hard disk using the directions in the applicable instruction manuals. Then follow the steps below.

Note that if your personal computer already has any version of the AutoMax Executive software loaded on it, you can install the new software without copying over these files. AutoMax V3.3 can co-exist on the same personal computer with any previous version of the AutoMax Executive software.

Making a Backup Copy

Before you use the AutoMax Executive software, you should make a backup copy in case the original is lost or destroyed. You must use the DOS DISKCOPY command for backup. Therefore, you will need as many formatted diskettes for the backup procedure as you used to load the AutoMax Executive software onto your hard disk. Follow the procedure outlined below.

Step 1. Log onto the C: drive by typing C: at the DOS prompt and then type

DISKCOPY A: A: or DISKCOPY B: B:

Step 2. The operating system will prompt you to insert the source diskette into drive A: (or B:). Insert the first disk and strike any key.

Step 5 The system will then prompt you to insert the target diskette. Replace the source (AutoMax Executive) diskette with the target (blank) diskette and strike any key. The display will indicate when the procedure is complete and allow you to copy the remaining disks without typing the DISKCOPY command again. Simply answer yes (Y) to the following prompt:

Copy another (Y/N)?

Step 4 Use the above procedure to make a copy of all the AutoMax Executive disks.

2.0 SINGLE USER INSTALLATION

Use the following procedure to install the AutoMax Programming Executive software M/N 57C395 (Single User) or M/N 57C397 (Single User Upgrade). This procedure will install AutoMax Executive files and automatically create a Windows group containing the AutoMax related icons.

Step 1. To begin installing the AutoMax Executive software, insert the AutoMax disk labeled "1" in floppy drive A: or B:

Type **WIN A:\INSTALL <CR>** or **WIN B:\INSTALL <CR>**

Before installing any files, the install program will display two messages. The first message describes the type of installation (e.g., Single User or Upgrade Single User); the second lists the number of diskettes required for the install procedure and the amount of hard disk space required for the AutoMax Executive software.

Step 2. You will be prompted for the drive and subdirectory in which to install AutoMax Executive V3.3. The defaults are as follows.

<DRV> ; <RPE> ; <AMX3>

where:

<DRV> is the hard drive where Windows is installed

<RPE> is the Resource subdirectory

<AMX3> is the AutoMax V3.3 subdirectory

<WORK_DRV> is the user work drive

<WORK_DIR> is the user work directory

You can make changes to any of the above parameters

Step 3. If AutoMax task skeleton files (SKELETON.*) are found in the install directory, the install procedure will display a message stating that the existing AutoMax task skeleton files (SKELETON.*) have been re-named to USKELTON.*

The install procedure will install new AutoMax task skeleton files (SKELETON.*). After the install is completed, you must update the new skeleton files with any custom information from your old skeleton files (USKELTON.*), and then delete the old skeleton files.

Step 4. The install procedure will begin writing files to your hard drive. After disk 1 is installed, you will be prompted to replace disk 1 with the floppy disk labeled "2", and so forth for the remaining diskettes. Be sure to respond appropriately each time to the "OK" prompt to continue the installation. The Resource AutoMax Executive software will occupy approximately 6.5 megabytes of memory on the hard disk when installed.

You can abort the installation procedure at any point by selecting Exit. If you abort the installation procedure, you will be given the option to create all of the files in the <AMX3> and <TEMP> subdirectories.

During the installation procedure, the following subdirectories will be created on the hard disk if they do not already exist:

```
<DRV>\<RPE>\<AMX3>  
<DRV>\<RPE>\<AMX3>\TEMP  
<WORK_DRV>\<WORK_DIR>
```

- Step 5. You will be prompted for whether you want to install ASD as part of AutoMax Executive V3.3. The ASD (AutoMax Software Designer) files will enable you, in interface the Programming Executive with AutoMax systems created on a VAX/VMS™ system. If you do not have AutoMax systems on a VAX™, select "No". If you select "Yes", the ASD files will be copied into subdirectory C:\ASD.
- Step 6. A text file, README.AMX, contains information on the compatibility, enhancements, and changes for AutoMax V3.3. You will be prompted for whether you want to read the file or not. If you select "Yes", the file will be displayed. If you select "No", you can read or print out the file later by selecting the "Read Me" icon from the AutoMax Executive group (for example, AMXV33A for AutoMax Version 3.3A) in the Windows Program Manager.
- Step 7. You will be prompted for whether you want the install program to add the command SET DCSEXDRV= <DRV>\<RPE>\<AMXS> to your AUTOEXEC.BAT file. This will allow you to run the AutoMax Executive software by selecting the "AutoMax V3" icon from the AMXV33A group in the Windows Program Manager.
- Step 8. You will be prompted for whether you want to replace the existing _DEFAULT.PIF file with one that assigns the value -1 to the Memory Requirements fields. The original file will be renamed _WINDEF.PIF. If you select "No", the AutoMax Programming Executive software may not run properly on your personal computer. In this case, the _DEFAULT.PIF file must be edited to place the value -1 in the Memory Requirements fields.
- Step 9. When the installation has been completed, a message will be displayed. You have the option of closing Windows and returning to DOS or returning to the Windows Program Manager.

If you installed the Single User Upgrade (MUN or CSB/), remember to update the new skeleton files with any custom information from your old skeleton files and then delete all of the USKELTON files from the <AMX3> directory. Also, remember to reboot your computer before attempting to run the AutoMax Programming Executive.

3.0 NETWORK INSTALLATION

Use the following procedure to install the AutoMax Programming Executive software M/N 57C345 (Shared Full 5 Users) or M/N 57C346 (Shared Upgrade 5 Users) onto the network server hard disk. At the completion of this procedure, you should perform the network node install procedure (described in section 3.1) on each of the network nodes that will use the AutoMax Executive software.

Step 1 To begin installing the AutoMax Executive software, insert the AutoMax disk labeled "1" in floppy drive A: or B:

type **WIN A:\INSTALL <CR>** or **WIN B:\INSTALL <CR>**

Before installing any files, the install program will display two messages. The first message describes the type of installation (e.g., Shared 5 User or Shared 5 User Upgrade); the second lists the number of diskettes required for the install procedure and the amount of hard disk space required for the AutoMax Executive software.

Step 2. You will be prompted for the drive and subdirectory in which to install AutoMax Executive V3.3. The defaults are as follows:

<DRV>:\<RPE>\<AMX3>

where:

<DRV> is the hard drive where Windows is installed

<RPE> is the ReSource subdirectory

<AMX3> is the AutoMax V3.3 subdirectory

<WORK_DRV> is the user work drive

<WORK_DIR> is the user work directory

You can make changes to any of the above parameters.

Step 3 If AutoMax task skeleton files (SKELETON.*) are found in the install directory, the install procedure will display a message stating that the existing AutoMax task skeleton files (SKELETON.*) have been re-named to USKELON.*

The install procedure will install new AutoMax task skeleton files (SKELETON.*). After the install is completed, you must update the new skeleton files with any custom information from your old skeleton files (USKELETON.*), and then delete the old skeleton files.

Step 4 The install procedure will begin writing files to the network server hard drive. After disk 1 is installed, you will be prompted to replace disk 1 with the floppy disk labeled "2", and so forth for the remaining diskettes. Be sure to respond appropriately each time to the "OK" prompt to continue the installation. The ReSource AutoMax Executive software will occupy approximately 6.5 megabytes of memory on the hard disk when installed.

You can abort the installation procedure at any point by selecting Exit. If you abort the installation procedure, you must delete all of the files in the <AMX3> and <TEMP> subdirectories.

During the installation procedure, the following subdirectories will be created on the hard disk if they do not already exist:

<DRV>:\<RPE>\<AMX3>

<DRV>:\<RPE>\<AMX3>\TEMP

<WORK_DRV>:\<WORK_DIR>

- Step 5. A text file, README.NET, contains information pertaining to using the AutoMax Programming Executive as a shared program on a network. You will be prompted for whether you want to read the file or not. If you select "Yes", the file will be displayed. If you select "No", you can read or print out the file later by selecting README.NET from the <AMX3> directory list using the Windows File Manager.
- Step 6. A message will be displayed that describes how to install the AutoMax Programming Executive software onto a node on the network. The node installation procedure should be done immediately after completing this procedure.
- Step 7. A message will be displayed stating that the installation is complete. You have the option closing Windows and returning to DOS or returning to the Windows Program Manager.

If you installed the Shared 5 User Upgrade (M/N 570546), remember to update the new skeleton files with any custom information from your old skeleton files and then delete all of the USKEL\DN files from the <AMX3> directory.

- Step 8. Run the Network Node Install procedure (see section 3.1) on each of the network nodes.

3.1 Installing the AutoMax Executive on a Network Node

Use the following procedure to install the AutoMax Programming Executive software on a network node.

- Step 1. From a node workstation, log on to the network drive and directory that contains the AutoMax Executive software. Type:

WIN INSTALL

- Step 2. A message will be displayed that describes the Shared User Node Installation. Select "OK" to begin the installation procedure. The AutoMax Executive *.INI file, AutoMax startup file, and Norton Editor will be written to the local hard drive.
- Step 3. You will be prompted for whether you want to install ASD as part of AutoMax Executive V3.3. The ASD (AutoMax Software Designer) files will enable you to interface the Programming Executive with AutoMax systems created on a VAX/VMS system. If you do not have AutoMax systems on a VAX, select "No". If you select "Yes", the ASD files will be copied into subdirectory C:\ASD.
- Step 4. A text file, README.AMX, contains information on the compatibility, enhancements, and changes for AutoMax V3.3. You will be prompted for whether you want to read the file or not. If you select "Yes", the file will be displayed. If you select "No", you can read or print out the file later by selecting the "Read Me" icon from the AMXV33A group in the Windows Program Manager.

- Step 5. You will be prompted for whether you want the install program to add the command SET
 OCSEXDRV=`<DRV>\<RPE>\<AMX3>` to your
 AUTOEXEC.BAT file. This will allow you to run the
 AutoMax Executive software by selecting the "AutoMax
 V3" icon from the AMXV33A group in the Windows
 Program Manager.
- Step 6. You will be prompted for whether you want to replace the
 existing _DEFAULT.PIF file with one that assigns the value
 -1 to the Memory Requirements fields. The original file will
 be renamed _WINDEF.PIF. If you select "No", the AutoMax
 Programming Executive software may not run properly on
 your personal computer. In this case, the _DEFAULT.PIF file
 must be edited to place the value -1 in the Memory
 Requirements fields.
- Step 7. When the installation has been completed, a message will
 be displayed. You have the option closing Windows and
 returning to DOS or returning to the Windows Program
 Manager.

3.2 Adding Network Users

The number of users having access to the AutoMax Executive software on the network can be increased by using the Add Users utility (M/N 570347). Note that the AutoMax Programming Executive software (M/N 570345 - Shared Full User) must exist on the network server hard drive before this utility can be used. Use the following procedure to run the Add Users utility.

- Step 1. Insert the AutoMax disk labeled "Add Users" in floppy drive A: or B:

Type `A:\ADDUSERS <CR>` or `B:\ADDUSERS <CR>`

You will be prompted for the directory where the AutoMax Executive software is located. The default is

`<DRV>\<RPE>\<AMX3>`

where,

`<DRV>` is the hard drive where Windows is installed
`<RPE>` is the ReSource subdirectory
`<AMX3>` is the AutoMax V3.3 subdirectory

- Step 2. Press ENTER to accept the default, or enter the directory path.

The current number of users will be displayed, and you will be prompted for the number of users to be added.

- Step 3. Enter the number of users to be added.

The new total number of users will be displayed.

- Step 4. Run the Network Node Install procedure (see section 3.1) on each of the new nodes.

4.0 RUNNING THE AutoMax PROGRAMMING EXECUTIVE SOFTWARE

To run the AutoMax Executive software, type `AUTOMAX3` from any drive or directory.

Note that you can install AutoMax Executive V3.3 on the same personal computer with AutoMax Executive V2. However, if you want to be able to run both versions without having to edit your `AUTOEXEC.BAT` file each time you switch, you must run AutoMax Executive V3.3 using the command `"AUTOMAX3"` at the DOS prompt. The `"AUTOMAX3"` command will invoke both Windows and AutoMax Executive V3.3. AutoMax Executive V2 is still invoked using `"AUTOMAX2"`.

If you choose to run AutoMax Executive V3.3 from inside Windows, i.e., by selecting the AutoMax Executive V3.3 icon from the `AMXV33A` group, and you want to be able to run AutoMax Executive V2, you will need to edit your `AUTOEXEC.BAT` file. You must edit this file each time you want to switch between the two versions if you want to run AutoMax Executive V3.3 from inside Windows. The `AUTOEXEC.BAT` file command `SET DCSEXDRV` must be edited as follows:

```
SET DCSEXDRV=drive\subdirectory
```

where `drive\subdirectory` is the drive and subdirectory in which the AutoMax Executive V2 or V3.3 software you want to run next is stored. For example:

```
SET DCSEXDRV=C:\RPE\AMX3
```

Note that you will have to re-boot your personal computer in order for the edited `AUTOEXEC.BAT` file to take effect.

When you run AutoMax Executive V3.3, the first screen displayed after the name and copyright information is the System Configuration. Choose the Setup menu and then select AutoMax, Communication, or Print to run the AutoMax configuration procedures. This will allow you to make changes to the AutoMax Executive V3.3 configuration. See "Modifying the AutoMax Executive V3.3 Configuration" in the AutoMax Programming Executive Instruction Manual (J2-1044) for detailed instructions.

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