

# Avidyne MFD Data Update Tutorial



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# Avidyne MFD Data Update Tutorial

The purpose of this Avidyne MFD Data Update Tutorial is to provide Avidyne's customer a more in-depth and easy to follow set of procedures to update their NavData and CMax Chart databases on their Avidyne MFD.

This MFD Data Update Tutorial also includes procedures on Registering their Avidyne product on [www.MyAvidyne.com](http://www.MyAvidyne.com), navigating Jeppesen's website for Avidyne MFD Database products and services, and downloading Emax Total Engine Management Data from their EX5000 MFD.

# Avidyne Products

## EX5000 MFD

10.7" multifunction display

Terrain and Water-based Map

Interfaces with:  
Traffic  
Lightning  
Datalink  
EGPWS (Optional)  
TCAS 1 (Optional)  
CMAX (Optional)  
EMAX (Optional)  
Checklists test



# Avidyne Products

## EX500 MFD

5.4" Multifunction Display

Terrain and Water-based Map

Interfaces with:

Traffic

Lightning

On board radars

Datalink

EGPWS (Optional)

TCAS 1 (Optional)

CMAX (Optional)



# EX5000/EX500 MFD

## Nav Database for the MFD Map Page

- **Large Moving Map**
- **Intuitive Design**
  - Easy to use display
- **One-button access to frequently-used displays**
  - Map
  - TAWS
  - Chart
  - Trip
  - Nrst
  - AUX
  - Engine
  - Radar
- **Results**
  - Easy to learn
  - Improved situational awareness
  - Avoid information overload



# EX5000/EX500 MFD

## CMax Chart Data

- Electronic Approach Charts and Airport Diagrams
  - Overlay of Flight Plan & Position
  - Easily select any Jepp chart
  - Exclusive one-touch “Auto-Fill” button provides quick access to destination airport charts
  - JeppView® subscription service thru Jeppesen
- ✓ CMax improves Situational Awareness during demanding approach and landing phases
- ✓ Reduces need for “progressives” at unfamiliar airports.
- Improves taxiway awareness
  - Shows incursion ‘hotspots’



# EX5000 MFD

## EMax™ Total Engine Management Data

- **EMax™ - Piston Aircraft**
  - Lean Assist
    - Confidence in proper leaning
    - Significant operational benefits
  - Fuel Totalizer
    - Fuel remaining displayed for each waypoint
    - Red and Yellow annunciations for low fuel conditions
  - Percent Power Display
  - Multiple-Cylinder CHT/EGT Display
  - Engine Data Logger
  - stores last 100 hrs of engine data



# [www.MyAvidyne.com](http://www.MyAvidyne.com)

## Registering your Avidyne Product

1. Go to [www.MyAvidyne.com](http://www.MyAvidyne.com)
2. Click **Enroll Now** button to Register Your Warranty and Open Your Account

Note: Before Registering your Avidyne unit on Avidyne's website [www.MyAvidyne.com](http://www.MyAvidyne.com) please have your Avidyne units serial numbers easily available.



## Registering your Avidyne Product

1. **Create a Username and Password, something that is easily remembered.**
  
2. **The Username must be at least 4 characters long and cannot contain any spaces.**
  
3. **The Password is case sensitive and must be at least 6 characters long and cannot contain any spaces.**
  
4. **The Username and Password cannot contain any special characters (@, \$, etc).**

The **UserName** provides a means of uniquely identifying you to MyAvidyne.

All of your personal information, Avidyne installed equipment, aircraft information, billing data and flight history is linked to the **UserName** you initially setup. Therefore it is important that you write down your UserName and Password and store it in a safe place that is easily accessible.

### Helpful Hints:

- The **Password** is case sensitive, which means that JohnSmith is different than johnsmith, johnSmith or Johnsmith.
- The **UserName** must be at least 4 characters long and cannot contain spaces. Special characters (@, \$, etc.) should not be used either.
- The **Password** must be at least 6 characters long and cannot contain spaces. Special characters (@, \$, etc.) should not be used either.
- If you try to create a **UserName** that someone else has already used, then you will receive an error: **Password does not match Username** and will need to choose another **UserName**. For example, assume that **Smith** is already taken, then try **Smith1**.
- Although your aircraft's tail number ('N' number) may seem like a good choice for a **UserName**, you may have second thoughts, if you sell your aircraft in the future.

The purpose of the **Password Question and Answer** is to provide an alternative means of validating your credentials in the event you should forget your password. If this should happen, the system will display your **Password Question** and provide you with an opportunity to input the **Password Question Answer**.

The answer you supply will be compared against the answer you had provided previously on the Logon Info form. If there is an exact match, your credentials will be flagged as validated.

### Helpful Hints:

- The answer to the question you ask should be obvious to you and not very obvious to others. For example, "**What color is the sky?**" may not be an appropriate question to use.
- "**What is your mother's maiden name?**" is a common password question that provides a reasonable level of protection in most cases.

[Continue Enrollment](#)

## Registering your Avidyne Product

1. Create a Password Question where you will be able to recall the answer to.

**Example: “What is your Mother’s maiden Name?”**

The screenshot shows a Microsoft Internet Explorer browser window with the URL <http://10.0.4.138/Enroll/CreateUserLogon.asp>. The page is titled "Create New User". It features the Avidyne logo and the tagline "The Integrated Flight Deck Company". The "Welcome" link is visible in the top right. The main content area contains instructions and a form for creating a new user account.

**What You Will Need Before You Begin:**

- Unit Serial Number of each unit (PFD and/or MFD) installed in your aircraft.
- Valid Email Account.
- Aircraft Make, Model and Tail Number.
- A valid Visa/Mastercard/Discover credit card number and expiration date, if signing up for Avidyne services.
- NOTE: For security reasons, this page and ALL OTHER PAGES will "timeout" after 15 minutes of inactivity.**

**Create new user logon. For more information, see notes below.**

USERNAME	<input type="text" value="bigjoe"/>	(4-20 characters - no spaces)
PASSWORD	<input type="password" value="*****"/>	(6-20 case sensitive characters - no spaces)
CONFIRM PASSWORD	<input type="password" value="*****"/>	(must exactly match above)

PASSWORD QUESTION:  [what's this?](#)  
PASSWORD QUESTION ANSWER:  (Case sensitive)

The *UserName* provides a means of uniquely identifying you to MyAvidyne.

All of your personal information, Avidyne installed equipment, aircraft information, billing data and flight history is linked to the *UserName* you initially setup. Therefore it is important that you write down your *UserName* and *Password* and store it in a safe place that is easily accessible.

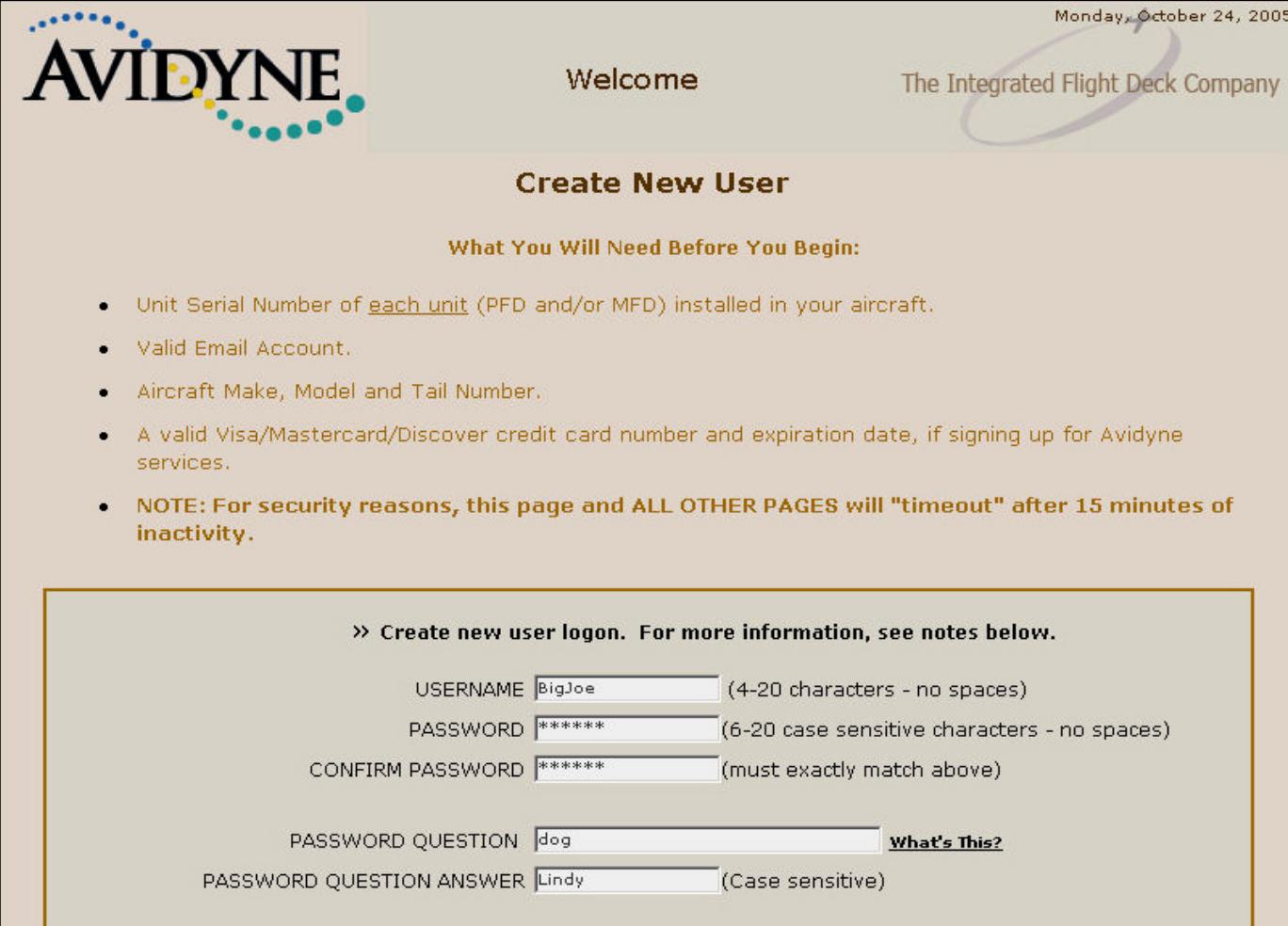
**Helpful Hints:**

- The *Password* is case sensitive, which means that JohnSmith is different than johnsmith, johnSmith or Johnsmith.
- The *UserName* must be at least 4 characters long and cannot contain spaces. Special characters (@, \$, etc.) should not be used either.

[www.Myavidyne.com](http://www.Myavidyne.com)

# Registering your Avidyne Product

1. Write down your Username and Password and store it in a safe place.



The image shows a screenshot of the Avidyne website's registration page. At the top right, the date is displayed as "Monday, October 24, 2005". The Avidyne logo is on the left, and the text "Welcome" and "The Integrated Flight Deck Company" are on the right. Below the header, the title "Create New User" is centered. A section titled "What You Will Need Before You Begin:" lists the following requirements:

- Unit Serial Number of each unit (PFD and/or MFD) installed in your aircraft.
- Valid Email Account.
- Aircraft Make, Model and Tail Number.
- A valid Visa/Mastercard/Discover credit card number and expiration date, if signing up for Avidyne services.
- NOTE: For security reasons, this page and ALL OTHER PAGES will "timeout" after 15 minutes of inactivity.**

Below this, a large orange-bordered box contains instructions and input fields:

**>> Create new user logon. For more information, see notes below.**

USERNAME	<input type="text" value="BigJoe"/>	(4-20 characters - no spaces)
PASSWORD	<input type="password" value="*****"/>	(6-20 case sensitive characters - no spaces)
CONFIRM PASSWORD	<input type="password" value="*****"/>	(must exactly match above)

PASSWORD QUESTION  [What's This?](#)

PASSWORD QUESTION ANSWER  (Case sensitive)

# Registering your Avidyne Product

1. Complete the remaining fields with your Contact Information.
2. The Contact fields marked as \* are required fields.
3. Then click Continue Enrollment button.

The screenshot shows a Microsoft Internet Explorer browser window with the URL [http://10.0.4.138/NOC\\_test/Enroll/EnterUserContact.asp](http://10.0.4.138/NOC_test/Enroll/EnterUserContact.asp). The page title is "Enter Contact Information". The Avidyne logo is on the left, and the company slogan "The Integrated Flight Deck Company" is on the right. The form contains fields for First Name (Joe), Last Name (Biggs), Company Name (empty), Address Line 1 (123 High St), Address Line 2 (empty), City (Phoenix), State (Arizona), Zip Code (85003), Country (United States), Phone Number (800-555-1234), and Email Address (bigjoe@Hotmail.com). All required fields have red asterisks. A "Continue Enrollment" button is at the bottom. The browser status bar shows "Done" and "Internet".

File Edit View Favorites Tools Help Address http://10.0.4.138/NOC\_test/Enroll/EnterUserContact.asp  
Back Google NOC DB Docs NOC Links NocDoc Wiki AviWxWorld  
Tuesday, April 12, 2005

AVIDYNE Welcome The Integrated Flight Deck Company

Enter Contact Information

>> Enter Your Contact Information. \* marks required fields

FIRST NAME Joe \*

LAST NAME Biggs \*

COMPANY NAME

ADDRESS LINE 1 123 High St \*

ADDRESS LINE 2

CITY Phoenix \*

STATE Arizona \*

ZIP CODE 85003 \*

COUNTRY United States \*

PHONE NUMBER 800-555-1234 \*

EMAIL ADDRESS bigjoe@Hotmail.com \*

Continue Enrollment

Done Internet

[www.Myavidyne.com](http://www.Myavidyne.com)

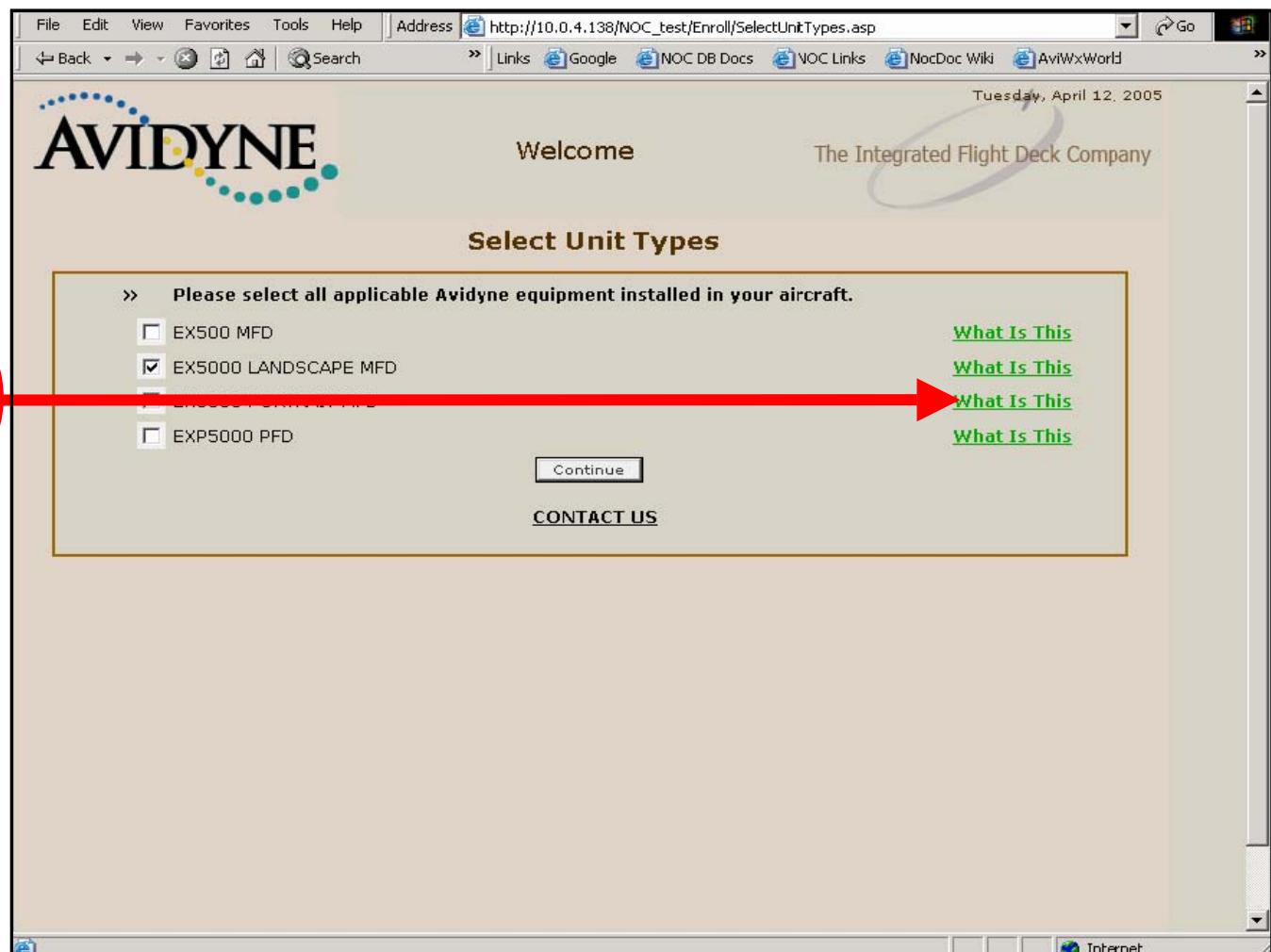
# Registering your Avidyne Product

1. Complete the remaining fields with your Aircraft Make, Aircraft Model, Aircraft Tail Number, and Company Name.
2. The Aircraft Information fields marked as \* are required fields.
3. Then click Continue Enrollment button.

The screenshot shows a Microsoft Internet Explorer browser window with the URL [http://10.0.4.138/NOC\\_test/Enroll/AddAircraft.asp](http://10.0.4.138/NOC_test/Enroll/AddAircraft.asp). The page is titled "Add New Aircraft". It features the Avidyne logo and the company tagline "The Integrated Flight Deck Company". The main form area contains four input fields: "AIRCRAFT MAKE" (Cirrus), "AIRCRAFT MODEL" (SR22), "AIRCRAFT TAIL NUMBER" (N425RV), and "COMPANY NAME" (empty). An instruction at the top of the form says "» Please Enter Your Aircraft Information \* marks required fields". A yellow rectangular box highlights the "CONTINUE ENROLLMENT" button at the bottom of the form. The status bar at the bottom of the browser window shows "Done" and "Internet".

# Registering your Avidyne Product

1. Select all applicable Avidyne equipment installed in your aircraft.
2. If you are unsure which Avidyne equipment is installed in your aircraft select the link labeled "What Is This".
3. Then click the Continue button.



[www.Myavidyne.com](http://www.Myavidyne.com)

# Registering your Avidyne Product

1. Enter your Avidyne unit's serial number.
2. When completed click the Finish Enrollment button

The screenshot shows a Microsoft Internet Explorer window with the following details:

- Title Bar:** File Edit View Favorites Tools Help | Address http://10.0.4.138/NOC\_test/Enroll/EnterUnitInfo.asp?E5000L=yes | Go
- Toolbar:** Back Forward Stop Home Search Links Google NOC DB Docs NOC Links NocDoc Wiki AviWxWorld
- Date:** Tuesday, April 12, 2005
- Header:** Welcome The Integrated Flight Deck Company
- Section:** Enter Unit Info
- Text:** >> Please enter the Unit Serial Numbers for the Equipment listed below. When you have filled in all blank fields press "Finish Enrollment".
- Equipment:** EX5000 LANDSCAPE MFD
- Form Field:** Unit Serial Number
- Buttons:** Finish Enrollment | CONTACT US
- Status Bar:** Done Internet

# [www.Myavidyne.com](http://www.Myavidyne.com)

## Registering your Avidyne Product

1. When you've completed the Registration process the "Welcome to MyAvidyne.com" page will display with your name on the top on the page.

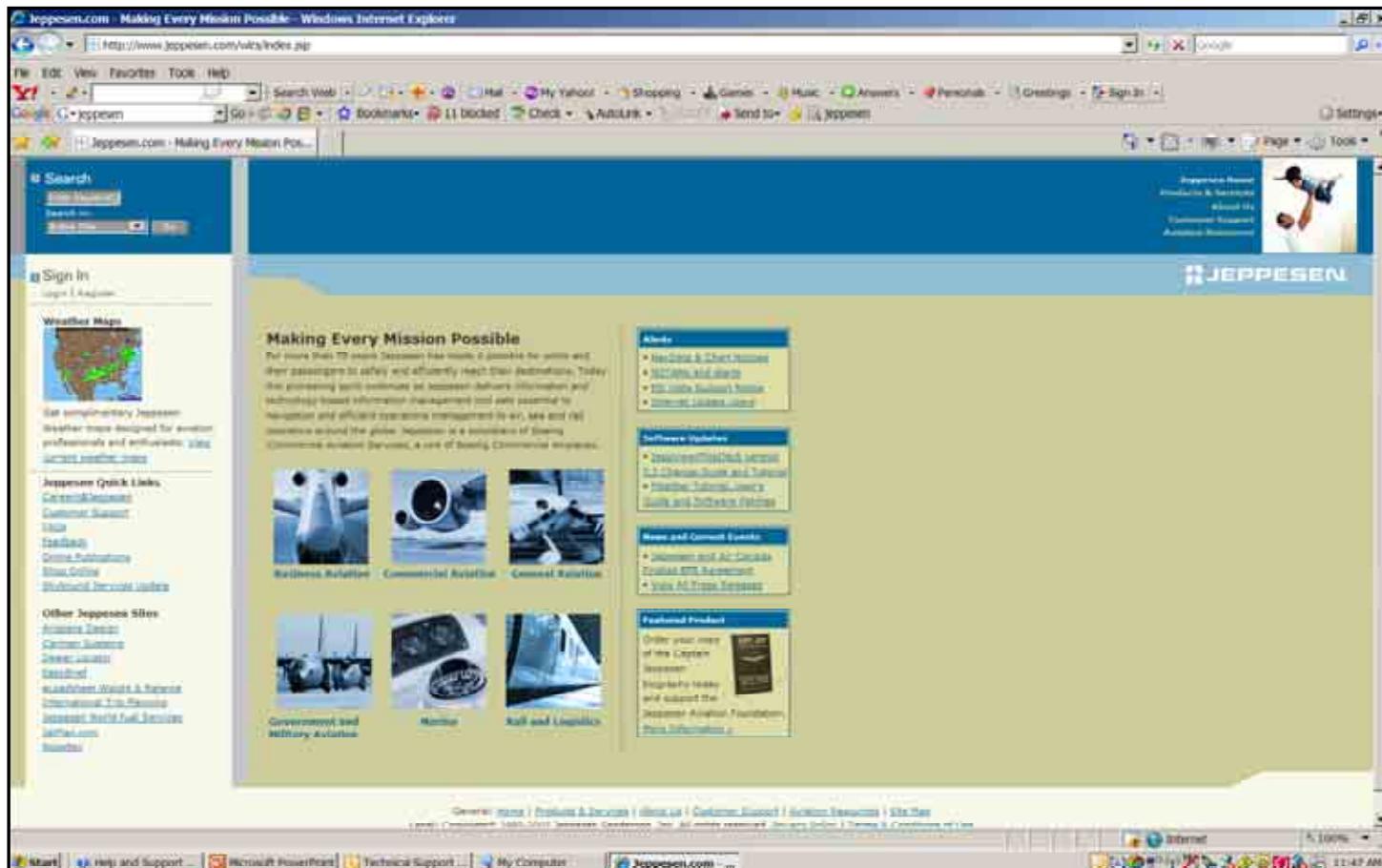
2. Now you can use your MyAvidyne.com account to:

- Register additional Avidyne products.
- To add or upgrade your Flex Extended Service Plan
- To create your CMax key code
- To activate your Narrowcast and Multi-Link Service Plans.
- To edit your aircraft and billing information.



# Jeppesen Subscription Overview

1. For all of your Avidyne Database subscriptions like the NavData database subscription for the MFD Map and the CMax Chart Data for the CMax Electronic Charts visit Jeppesen website [www.jeppesen.com](http://www.jeppesen.com).



# Jeppesen Subscription Overview

1. For all of your Avidyne Database Products and Services subscriptions click on the Products & Services link.

The screenshot shows the Jeppesen website homepage. On the left, there's a sidebar with a search bar, sign-in options, weather maps, and various quick links. The main content area features a large headline 'Making Every Mission Possible' followed by a detailed paragraph about Jeppesen's history and services. Below this are six categories: Business Aviation, Commercial Aviation, General Aviation, Government and Military Aviation, Marine, and Rail and Logistics, each with a corresponding image. The top right corner of the main content area contains links to 'Jeppesen Home', 'Products & Services', 'About Us', 'Customer Support', and 'Aviation Resources'. The Jeppesen logo is in the bottom right corner of the main content area.

# Jeppesen Subscription Overview

1. Next select the Charting and Navigation Services link.

The screenshot shows the Jeppesen website's "Products & Services" section. A red circle highlights the "Charting and Navigation Services" link under the "Aviation Training" heading. A red arrow points from the text in step 1 to this link. The page includes sections for Aviation Training, Weather, and Custom Services, each with descriptive text and associated icons.

**Products & Services**

**Aviation Training**  
Individual and Classroom Training Materials for Private, Commercial, Instrument, Multi-Engine, and Certified Flight Instructor Pilots, Jeppesen Academy, Airframe and Powerplant Maintenance Training, and Test Preparation Materials.

**Weather**  
Get complimentary Jeppesen Weather maps designed for aviation professionals and enthusiasts. [View current weather maps](#)

**Custom Services**  
Jeppesen offers an array of services customized specifically to your needs. Choose from Tailored Services, Document Management, OPSControl, OPSData, Maintenance Information Services, Weather and NOTAM Services and more.

**Charting and Navigation Services**  
Jeppesen offers an extensive array of charting and navigation services including Airway Manual - Jeppesen's renown paper chart services; JeppView - electronic chart services configured to meet a variety of uses; and NavData - electronic data formatted for GPS and FMS hardware systems. We also provide an extensive line of VFR flight information products, airport directory and aviation information services.

**Flight Planning**  
Jeppesen offers a wide range of software products and services designed to address virtually every flight planning need. Our flight planning family includes:  
**FliteStar** - our industry leading, PC-based flight planning tool.  
**Jeppesen Internet Flight Planner (JIFP)** - our online, real time flight planner and newest member of the family.  
**JetPlanner** - user friendly graphical interfaces to world renowned JetPlan service (Jeppesen's premier flight planning engine).  
  
We also offer **International Trip Planning** to assist customers with fast, accurate trip planning anywhere in the world.

**Customer Support**

Jeppesen Home Products & Services About Us Customer Support Aviation Resources

JEPPSEN

# Jeppesen Subscription Overview

1. Then select the IFR Chart Services link.

The screenshot shows the Jeppesen website's main page. A red circle highlights the "Products & Services" menu on the left, and a red arrow points from this circle to the "IFR Chart Services" link under the "Charting and Navigation Services" section on the right. The "IFR Chart Services" link is underlined and blue, indicating it is the target of the first step in the process.

**Search**  
Enter Keyword(s)  
Search in: Entire Site Go

**Products & Services**

- Aviation Training
- Charting and Navigation Services
- Flight Planning
- Custom Services
- Sale Supplies

**Sign In**  
Login | Register | View Cart

**Weather**  
Get complimentary Jeppesen Weather maps designed for aviation professionals and enthusiasts. [View current weather maps](#)

**IFR Chart Services**

[Information and Reference Services](#)

[NOTAM Service](#)

[Airway Manual Accessories](#)

**Charting and Navigation Services**

[IFR Chart Services](#)

Get the charts most widely used by pilots around the world. Find Standard Airway Manual Services (Revision and Trip Kits), Enroute Only Coverages, Airway Manual Express, Q-Service, FliteDeck and JeppView Services and more.

**Trip Kits**

Trip kits allow you to purchase one of our standard Airway Manual coverages on a one-time basis for your next trip. Designed for the pilot who requires the most up-to-date enroute and terminal charts available. This service provides you with a one-time complete set of current charts for the geographic area you request. No revision services are provided. Including Standard Airway Manual Trip Kits, HP-4000, HP-6000 and Airport Qualification and Familiarization Service Trip Kits.

**Information and Reference Services**

Jeppesen has an airport directory for every need. Check out the consolidated Airport Directory, or our new Electronic Airport Directory. Look here for Federal Aviation Regulation subscriptions, pilots and mechanics, the AIM, and other information services.

**GPS NavData Services**

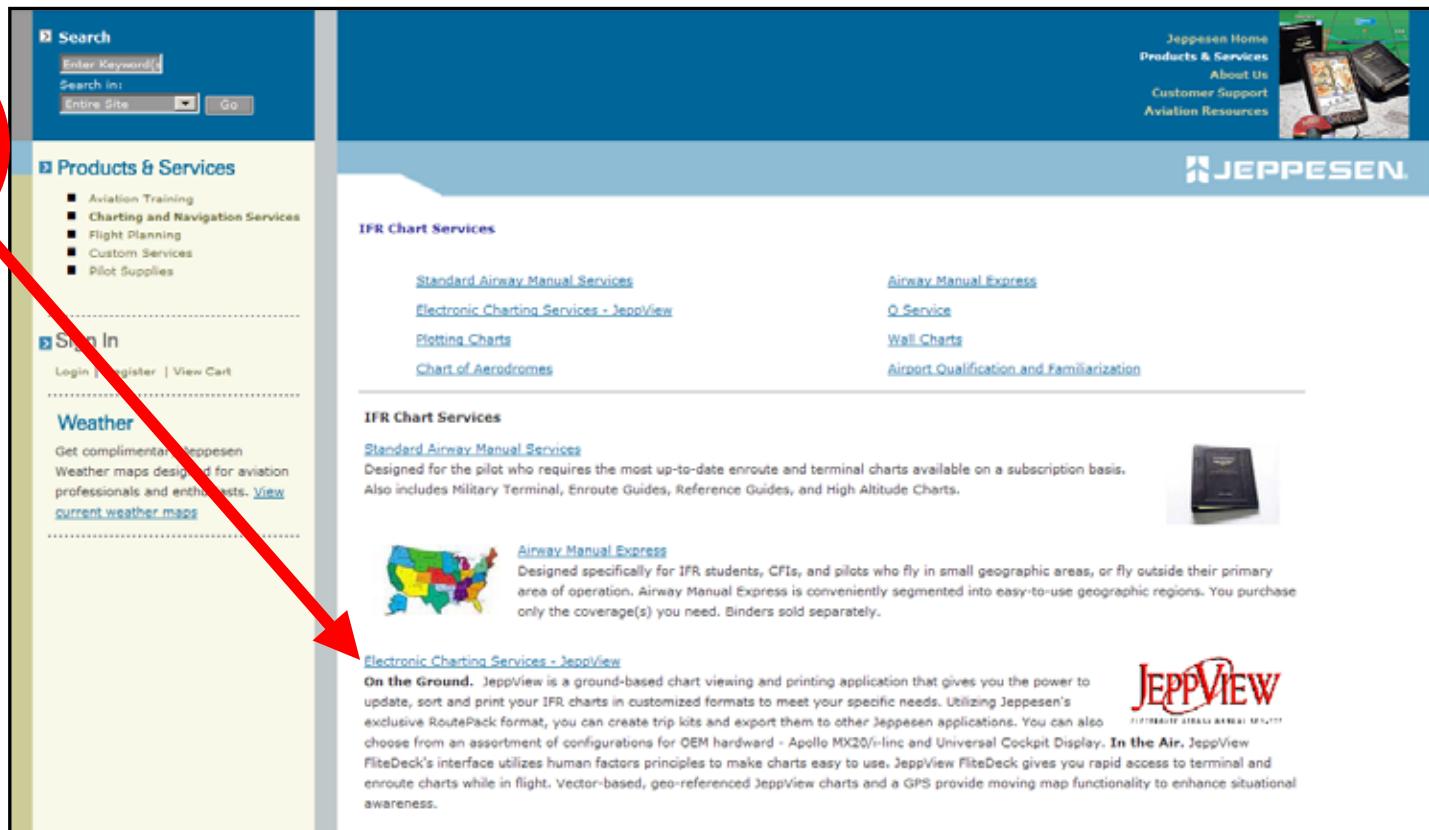
GPS NavData Services leads the way in providing the electronic data necessary for airline, corporate, and general aviation pilots to maximize GPS benefits -- today and tomorrow.

Jeppesen Home  
Products & Services  
About Us  
Customer Support  
Aviation Resources

**JEPPESEN**

# Jeppesen Subscription Overview

1. Then select the Electronic Charting Services-JeppView link.



The screenshot shows the Jeppesen website's main navigation bar at the top, featuring links for Jeppesen Home, Products & Services, About Us, Customer Support, and Aviation Resources. Below the navigation is the Jeppesen logo. The main content area has a sidebar on the left with a search bar, sign-in options, and a weather section. The main content area displays two sections: 'IFR Chart Services' and 'Electronic Charting Services'. A red arrow points from the text 'Then select the Electronic Charting Services-JeppView link.' to the 'Electronic Charting Services - JeppView' link in the sidebar.

**Products & Services**

- Aviation Training
- Charting and Navigation Services
- Flight Planning
- Custom Services
- Pilot Supplies

**Weather**

Get complimentary Jeppesen Weather maps designed for aviation professionals and enthusiasts. [View current weather maps](#)

**IFR Chart Services**

[Standard Airway Manual Services](#)      [Airway Manual Express](#)  
[Electronic Charting Services - JeppView](#)      [Q Service](#)  
[Plotting Charts](#)      [Wall Charts](#)  
[Chart of Aerodromes](#)      [Airport Qualification and Familiarization](#)

**Electronic Charting Services**

**Standard Airway Manual Services**  
Designed for the pilot who requires the most up-to-date enroute and terminal charts available on a subscription basis. Also includes Military Terminal, Enroute Guides, Reference Guides, and High Altitude Charts.



**Airway Manual Express**  
Designed specifically for IFR students, CFI's, and pilots who fly in small geographic areas, or fly outside their primary area of operation. Airway Manual Express is conveniently segmented into easy-to-use geographic regions. You purchase only the coverage(s) you need. Binders sold separately.

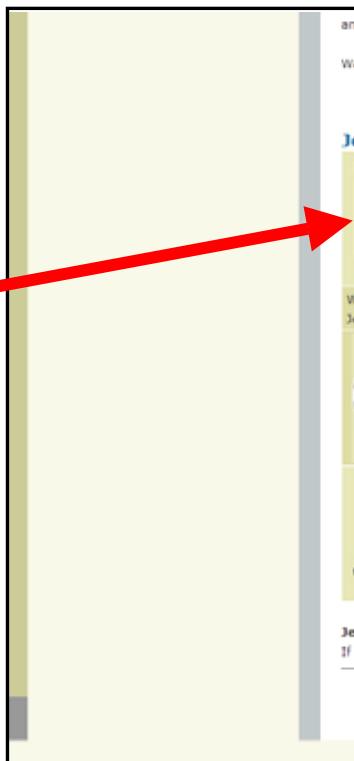


**Electronic Charting Services - JeppView**  
**On the Ground.** JeppView is a ground-based chart viewing and printing application that gives you the power to update, sort and print your IFR charts in customized formats to meet your specific needs. Utilizing Jeppesen's exclusive RoutePack format, you can create trip kits and export them to other Jeppesen applications. You can also choose from an assortment of configurations for OEM hardware - Apollo MX20i-Linc and Universal Cockpit Display. **In the Air.** JeppView FliteDeck's interface utilizes human factors principles to make charts easy to use. JeppView FliteDeck gives you rapid access to terminal and enroute charts while in flight. Vector-based, geo-referenced JeppView charts and a GPS provide moving map functionality to enhance situational awareness.

**JEPPVIEW**  
THE ULTIMATE AIRLINE AVIATION RESOURCE

# Jeppesen Subscription Overview

1. Then choose the correct JeppView for your Avidyne MFD which here would be JeppView for Multi-function Displays (MFDs).



and following any other printer manufacturer requirements and recommendations for complex graphics.

Watch our video on [Printing from JeppView](#) or Purchase [JeppView Printing Paper](#).

[Back to top](#)

### JeppView for Cockpit Hardware

**AVAILABLE NOW!**

**JeppView for Multi-function Displays (MFDs)** - Designed to integrate Jeppesen charts with the latest MFDs to greatly reduce the amount of paper carried on board the aircraft. Also provides PC utility that allows for planning and printing/viewing of all charts in your coverage area.

We also offer the standard JeppView configurations for OEM hardware - Apollo MX20/i-Linc and Universal Cockpit Display. (Please note: the upgrade version of JeppView for OEM hardware will be available at a later time to be determined).

<b>JeppView for the ProLine 21</b> Designed for use with the Rockwell Collins ProLine 21 hardware. Also provides PC utility for planning, printing and viewing. 	<b>JeppView for the Gulfstream CT-1000 (Single Configuration) (Dual Configuration)</b> Designed to integrate with CT-1000 hardware. Also provides PC utility that allows for planning, printing, and viewing. Available for coverages worldwide. 
<b>JeppView for the Universal Cockpit Display (UCD)</b> Designed to integrate with UCD hardware. Also provides PC utility that allows for planning, printing, and viewing. 	

### JeppView Hardware Display Devices

If you're looking for more information on some of the hardware systems that are available for use with Jeppesen's JeppView software, [click here](#).

General: [Home](#) | [Products & Services](#) | [About Us](#) | [Customer Support](#) | [Aviation Resources](#) | [Site Map](#)  
Legal: Copyright© 1995-2007 Jeppesen Sanderson, Inc. All rights reserved. [Privacy Policy](#) | [Terms & Conditions of Use](#)  
Contact Us: US Toll Free: 1-800-621-5377 | Direct: 303-799-9000 | Germany: +49 6102 5070 | [Diseña tu Escalón](#) | [Contact Us](#)

# Jeppesen Subscription Overview

Search

Enter Keyword(s)

Search in:

Entire Site Go

Products & Services

- Aviation Training
- Charting and Navigation Services
- Flight Planning
- Custom Services
- Pilot Supplies

Sign In

Login | Register | View Cart

Weather

Get complimentary Jeppesen Weather maps designed for aviation professionals and enthusiasts. [View current weather maps](#)

Jeppesen Home  
Products & Services  
About Us  
Customer Support  
Aviation Resources



IFR Chart Services > Electronic Charting Services - JeppView

**Electronic Charting Services - JeppView**

[Overview](#) | [Components & Requirements](#) | [Multi-User Awareness](#) | [Printing from JeppView](#) | [JeppView for Cockpit Hardware](#) | [FAQ](#) | [JeppView and JeppView FliteDeck Demo](#)



Listen up! [Jeppesen Podcasts](#) can answer a lot of your questions about flying electronically. For more information about going paperless, visit [FlyElectronic.net](#) and get a free switch kit! [JeppView for Multi-function Displays](#).

**Overview**

**JeppView and JeppView FliteDeck Electronic Charting Services**

JeppView services provide you with full color, high-quality vector-based electronic approach charts, as well as electronic enroute charts that can be customized in a variety of user-defined configurations to meet your intended use. JeppView contains all the same information as our Airway Manual and Europe VFR Bottlang Airfield Manual coverages providing you with electronic terminal approach charts, arrival and departure procedures, and airport diagrams.

Additionally, electronic enroute charts are provided that enable you to plan routes from departure to destination, enabling you to view and print those charts to use as a backup. Electronic XML text has also been added to eliminate the need to carry paper text with you. An improved text module with an XML-based text solution for general and business aviation pilots has recently been added. XML text pages make searching and accessing both IFR and VFR information much easier by:

- Allowing pilots to search keywords
- Ability to bookmark pages
- Quickly find text-based information by zooming and scrolling



Digital VFR charts for the European market

Property of Avidyne Corporation. Do not reproduce or distribute without permission.

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# Jeppesen Subscription Overview

1. **The Jeppesen Electronic Chart Data for Multi-Function Display subscription includes the JeppView viewer application, Jeppesen Service Update Manager Application, JeppView electronic chart data and the JeppView electronic text pages.**

The screenshot shows the Jeppesen website with a blue header bar. The main content area displays information about the JeppView for MFDs service. It features a top navigation bar with links to Jeppesen Home, Products & Services, About Us, Customer Support, and Aviation Resources. The Jeppesen logo is prominently displayed. Below the navigation, there's a breadcrumb trail: MFD Chart Services > Electronic Charting Services - JeppView > JeppView for MFDs. The main content area has a heading "JeppView for MFDs" and a sub-section "Jeppesen Electronic Chart Data for Multi-Function Displays". It describes JeppView as the latest innovation from Jeppesen, allowing users to upload Jeppesen charts directly to their MFD to reduce paper requirements. It supports Avidyne and Garmin MFDs. A "What's Included" section lists four items: 1) JeppView viewer application (FlightDeck.net included), which allows viewing and printing Jeppesen charts; 2) JeppServices Update Manager Application, which exports charts to an MFD; 3) JeppView electronic chart data, which updates charts every 14 days; and 4) JeppView electronic text pages, which update text pages as required. It also mentions that Paper Enroute Charts and Area Charts are included. A sidebar on the left contains a search bar, a "Products & Services" list (Aviation Training, Charting and Navigation Services, Flight Planning, Customer Services, Pilot Supplies), a "Sign In" section with links for Login, Register, and View Cart, and a "Weather" section with a link to current weather maps. A call-to-action at the bottom left says "7 days per week 6 a.m. - 8 p.m. MT 1.800.621.5377".

2. **Also, the Jeppesen NavData updates for your Avidyne MFD.**

# Jeppesen Subscription Overview

1. Now select your Coverage Options for both your Jeppesen Electronic Chart Data for Multi-Function Display and your NavData Updates for your Avidyne MFD.

Coverage Options*			
Coverage	Order Code	Coverage	Order Code
 Full USA USA Military	MFUSA MFUSM	 Central Europe	MFCEN
 East	MFUSB	 Eastern Europe Special Manual	MFEAS
 East and Central	MFUSC	 France	MFFRA
 Central	MFUSD	 Germany	MFGER
 Central and West	MFUSE	 Italy	MFITA
 West	MFUSF	 Northern Europe	MFNOR
 Canada Alaska	MFCAN	 Scandinavia	MFSCA
 Latin America	MFLAM	 South Africa	MFSAF
 South America	MFSAM	 Spain	MFSPA
 Pacific Basin	MFPBN	 United Kingdom and Ireland	MFUKI
*			
 Australia	MFASD	 Australasia	MFAUS
 Middle East South Asia	MPMES	 China	MFCHI
 Europe Europe Military	MFEUR MFEML	 Europe and Mediterranean	MFERM
 Eastern Europe	MFEEU	 Africa	MFAFR
 Atlantic Special Manual Transatlantic	MFATL		

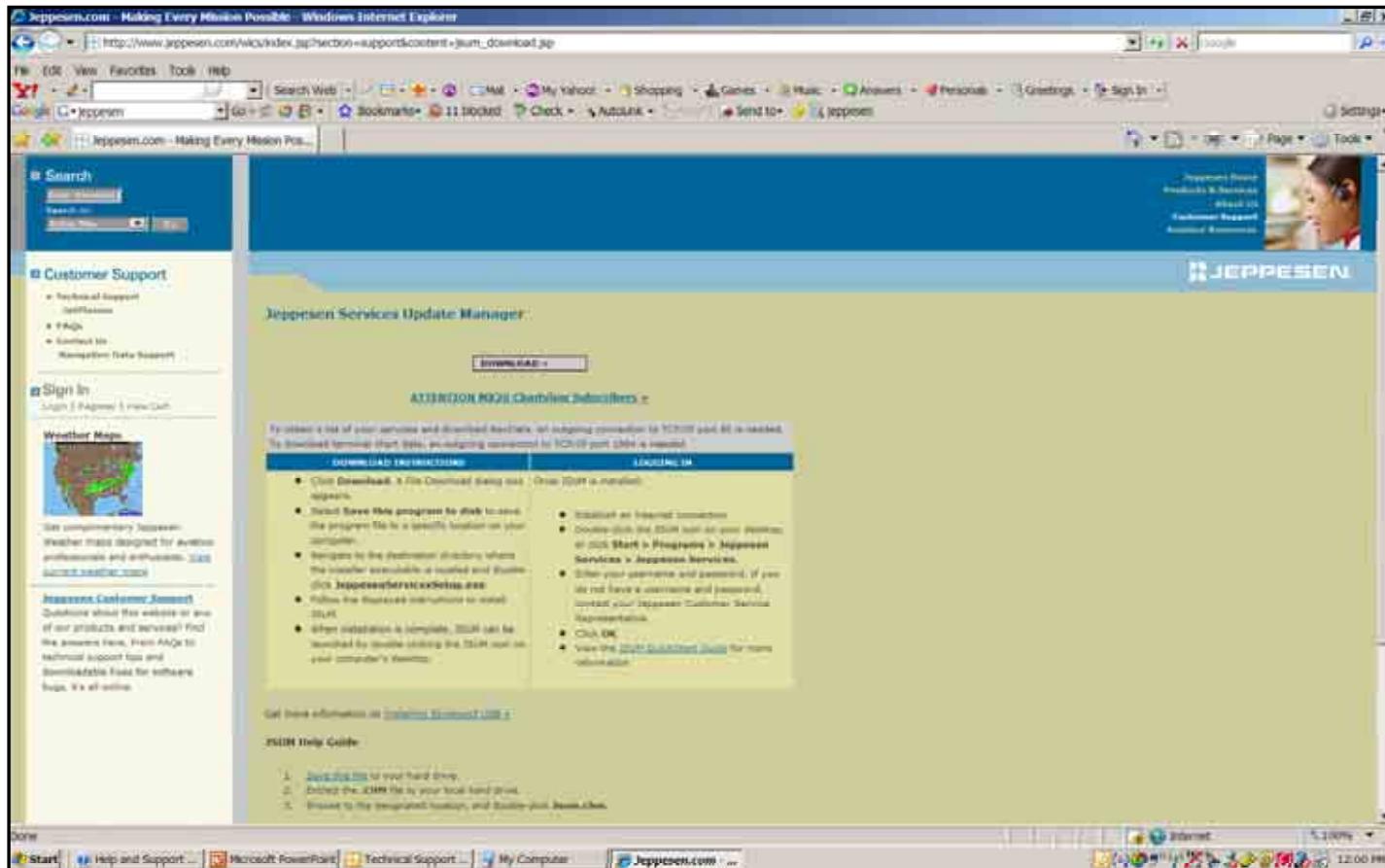
# Jeppesen Subscription Overview

- 1. To place your order for the Jeppesen Electronic Chart Data for Multi-Function Display subscription and the Jeppesen NavData updates for your Avidyne MFD.**
- 2. Contact Jeppesen  
7 Days per week  
6 AM-8 PM MT  
Call 1-800-621-5377**

The screenshot shows the Jeppesen website with a blue header bar. The main content area displays information about the JeppView for MFDs service. It includes a search bar, a sidebar with links for Products & Services (Aviation Training, Charting and Navigation Services, Flight Planning, Customer Services, Pilot Supplies), a sign-in section, and a weather map. The main content area features a heading 'JeppView for MFDs' and 'Jeppesen Electronic Chart Data for Multi-Function Displays'. It describes JeppView as the latest innovation for MFDs, allowing users to upload Jeppesen charts directly to the MFD to reduce paper. It also mentions the JeppView viewer application (FlightDeck.net included) for PC flight planning. Below this, there are sections for 'What's Included' showing icons for the JeppView viewer application, the JeppServices Update Manager Application, the JeppView electronic chart data, and JeppView electronic text pages. At the bottom, it notes that Paper Enroute Charts and Area Charts are included with the service. The Jeppesen logo and navigation menu are visible at the top right.

# Jeppesen Subscription Overview

1. Remember to always download the latest version of the Jeppesen Services Update Manager (JSUM) on to your PC.



# Jeppesen Subscription Overview

1. Verify that your PC or Notebook meets the Jeppesen minimum JeppView System Requirement.

## ***JeppView System Requirements***

*Microsoft Window 2000 SP3, XP SP2, or XP Tablet PC Edition*

*1 GHz or higher processor*

*800 X 600 resolution display or larger*

*512 MB RAM or better*

*2.75 GB available hard drive space or higher*

*64 MB video card or better*

*8x CD-ROM drive*

*Broadband Internet connection for online download of program updates*

*600 DPI printer, 6 pages per minute, color or better*

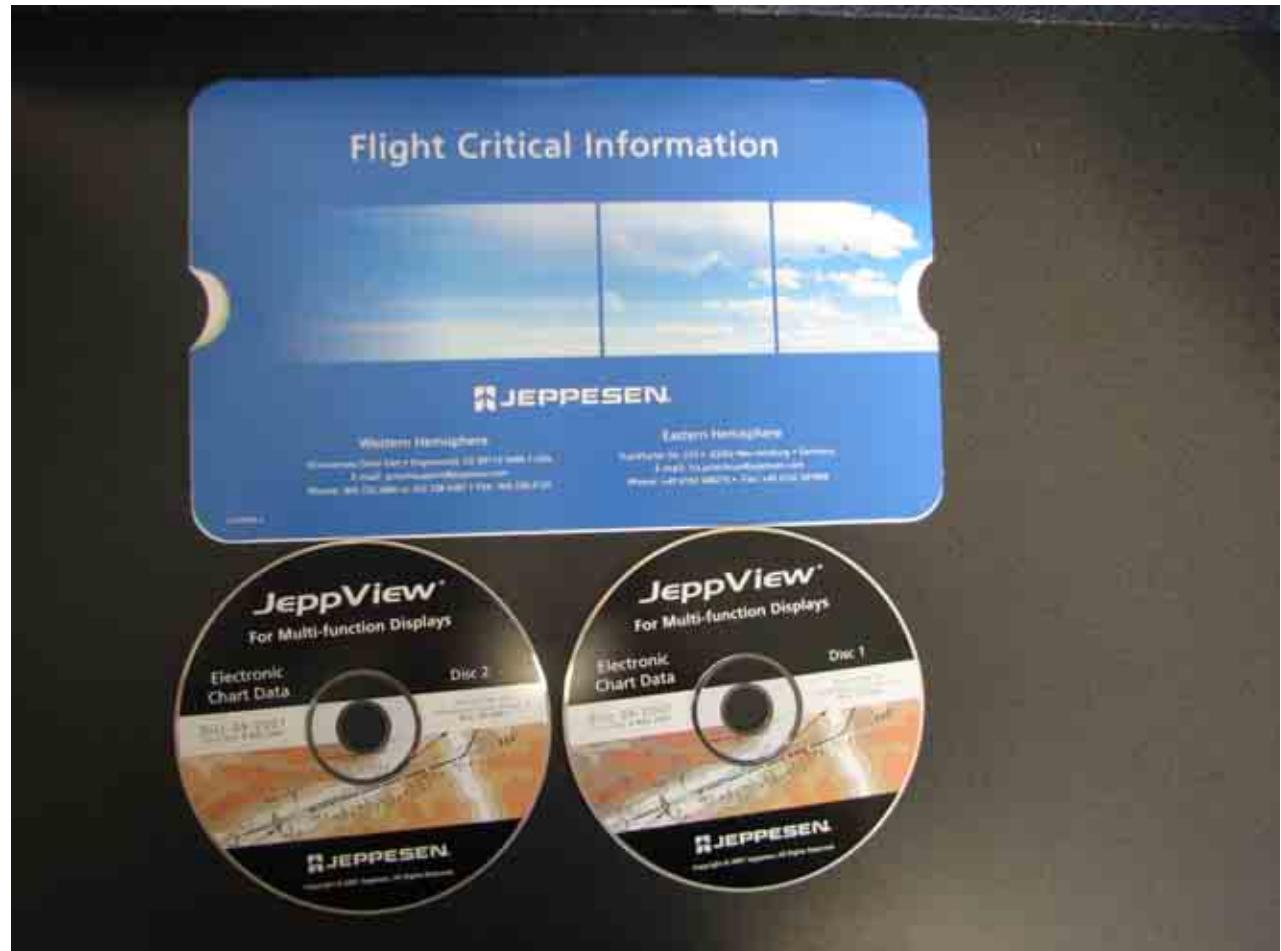
# Jeppesen Subscription Overview

1. **Keep your Jeppesen Services Update Manager (JSUM) Username and Password written down in a safe and secure place, so that you'll have it available to log into (JSUM) to download your latest Jeppesen CMax Electronic Chart Data and Jeppesen NavData updates.**



# Jeppesen Subscription Overview

1. For those receiving the Jeppesen CMax Electronic Chart Data and Jeppesen NavData updates in CD format, keep those in a safe and secure place too.



# EX5000/EX500 MFD

## NavData Update Procedures

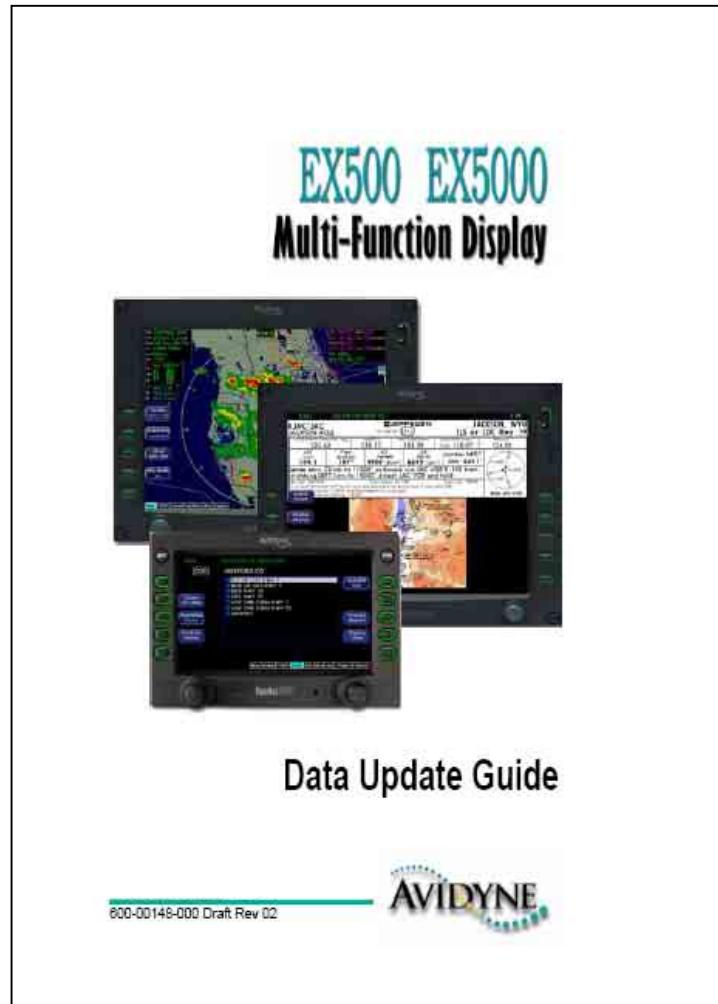


# NavData Update Procedures

Always refer to the EX500 EX5000 Multi-Function Display Data Update Guide for reference in completing the NavData update procedure.

This guide is available to download off Avidyne's website [www.avidyne.com](http://www.avidyne.com) in the Products/Publications Library menu.

<http://www.avidyne.com/techpubs.shtml>

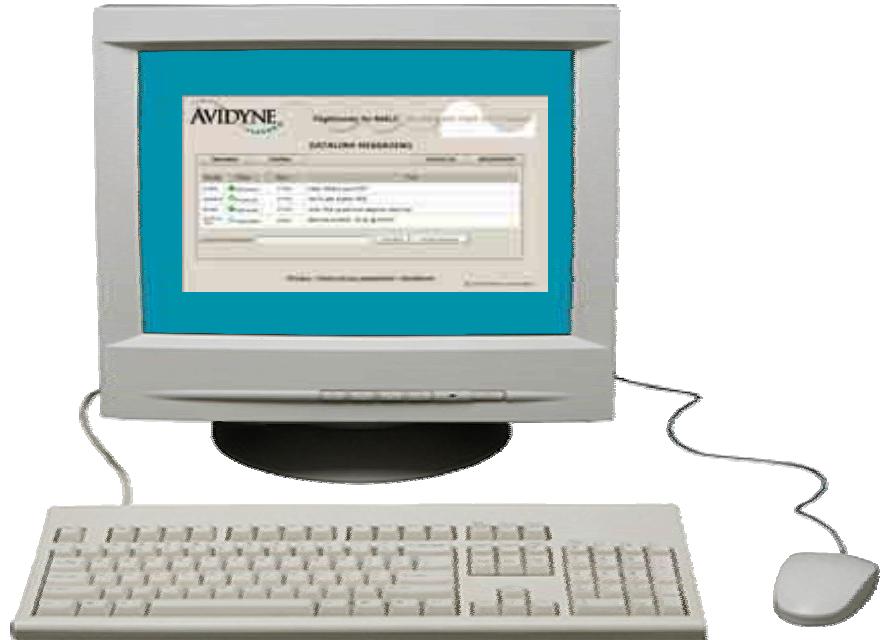


# Minimum System Requirements

## NavData Update Procedures

**Minimum System Requirements to install and run the Jeppesen JeppView package:**

- **Microsoft Window 2000 SP3, XP SP2, or XP Tablet PC Edition**
- **1 GHz or higher processor**
- **800 X 600 resolution display or larger**
- **512 MB RAM or better**
- **2.75 GB available hard drive space or higher**
- **64 MB video card or better**
- **8x CD-ROM drive**
- **Broadband Internet connection for online download of program updates**



# Minimum Equipment Requirements

## NavData Update Procedures

**Minimum Equipment Requirements to upload  
the Jeppesen NavData updates:**

**For Zip Disk User:**

- **Portable USB-compatible Zip Drive.** Use Avidyne part number 200-00048-000 or another USB Zip device.
- **100MB, 250MB and 750MB Zip Disk and Zip Drive dataloader.**



**For USB Flash Memory Drive User:**

- **128MB, 256MB, 512MB USB Flash Memory Drive**

**See [www.Avidyne.com](http://www.Avidyne.com) for a list of approved  
USB Flash Memory Devices.**



# Avidyne Approved USB Flash Memory Devices

## NavData Update Procedures

Manufacturer	Product	Size
Apacer	HandySteno	256
Apacer	AudioSteno	512
Kingston	Data Traveler	256
Kingston	Data Traveler	512
PNY	Attache	256
PNY	Attache	512
Sandisk	Cruzer Mini	256
Sandisk	Cruzer Mini	512
SmartModular	USB-IF Hi-Speed 2.0	256
SmartModular	USB-IF Hi-Speed 2.0	512
Transcend	JetFlash	256
Transcend	JetFlash	512

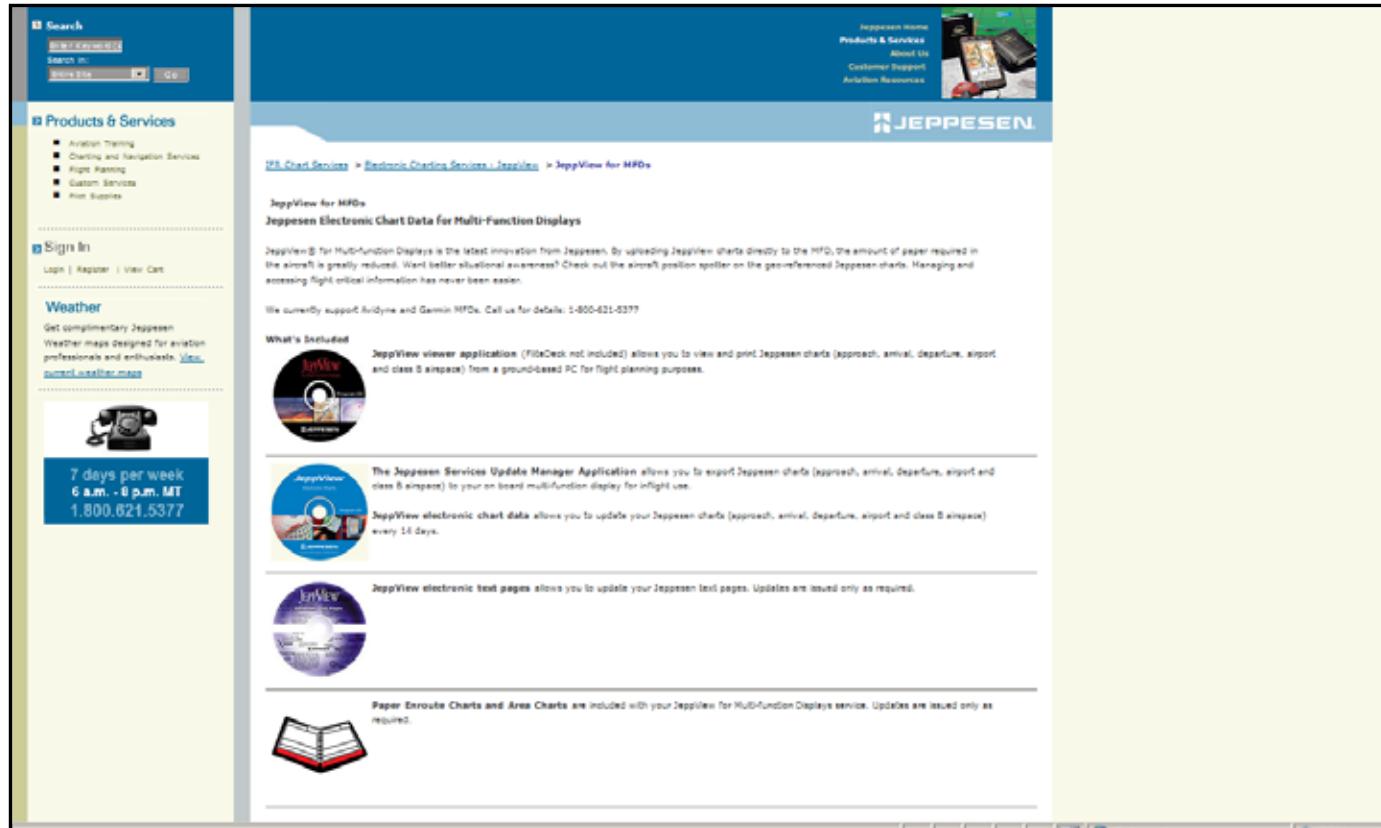
Avidyne recommends that you dedicate an Avidyne-approved USB Flash Memory Drive solely for data transfer to and from your EX5000, and not mix usage of this Flash Memory Drive with other devices.

# Ordering NavData Updates

## NavData Update Procedures

- First visit Jeppesen website  
[www.Jeppesen.com](http://www.Jeppesen.com) or contact by phone at 1-800-621-5377 to place your order for the Jeppesen NavData updates for your Avidyne MFDs.**

- Contact Jeppesen  
7 Days per week  
6 AM-8 PM MT  
Call 1-800-621-5377**



The screenshot shows the Jeppesen website with a blue header bar. The main content area displays information about JeppView for MFDs, including a navigation tree, a sign-in link, weather information, and a sidebar with a phone icon and contact details. The central text area describes JeppView E for Multi-Function Displays, its benefits, supported devices, and included software applications: JeppView viewer application, JeppView Services Update Manager Application, JeppView electronic chart data, and JeppView electronic text pages. It also mentions paper enroute charts and area charts.

# Formatting the Zip Disk/USB Flash Drive

## NavData Update Procedures

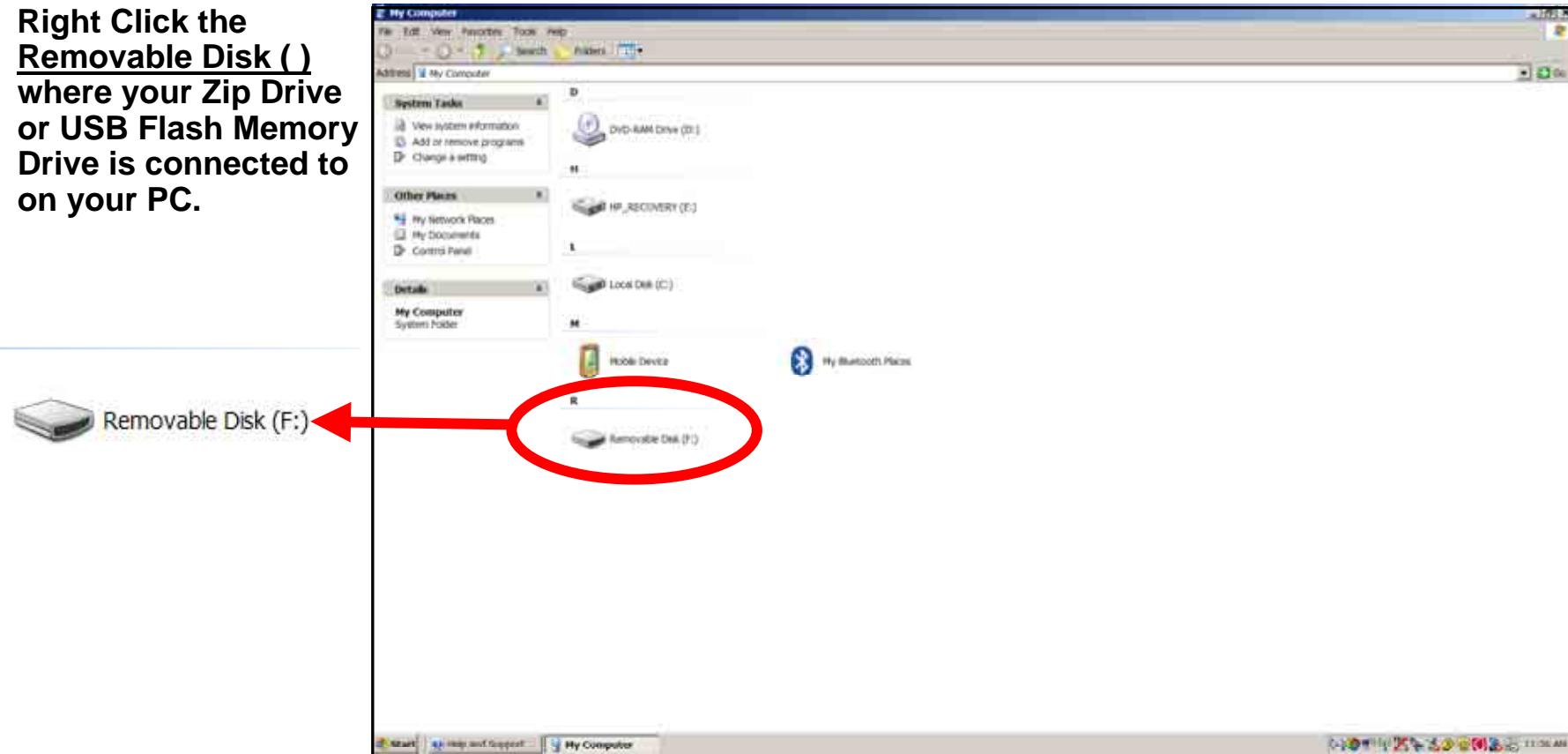
1. **Connect your Zip Drive Dataloader with the Zip Disk inserted into your USB port on your PC OR connect your USB Flash Memory Drive into your USB port on your PC.**
2. **Double left click the My Computer Icon on your PC Desktop.**



# Formatting the Zip Disk/USB Flash Drive

## NavData Update Procedures

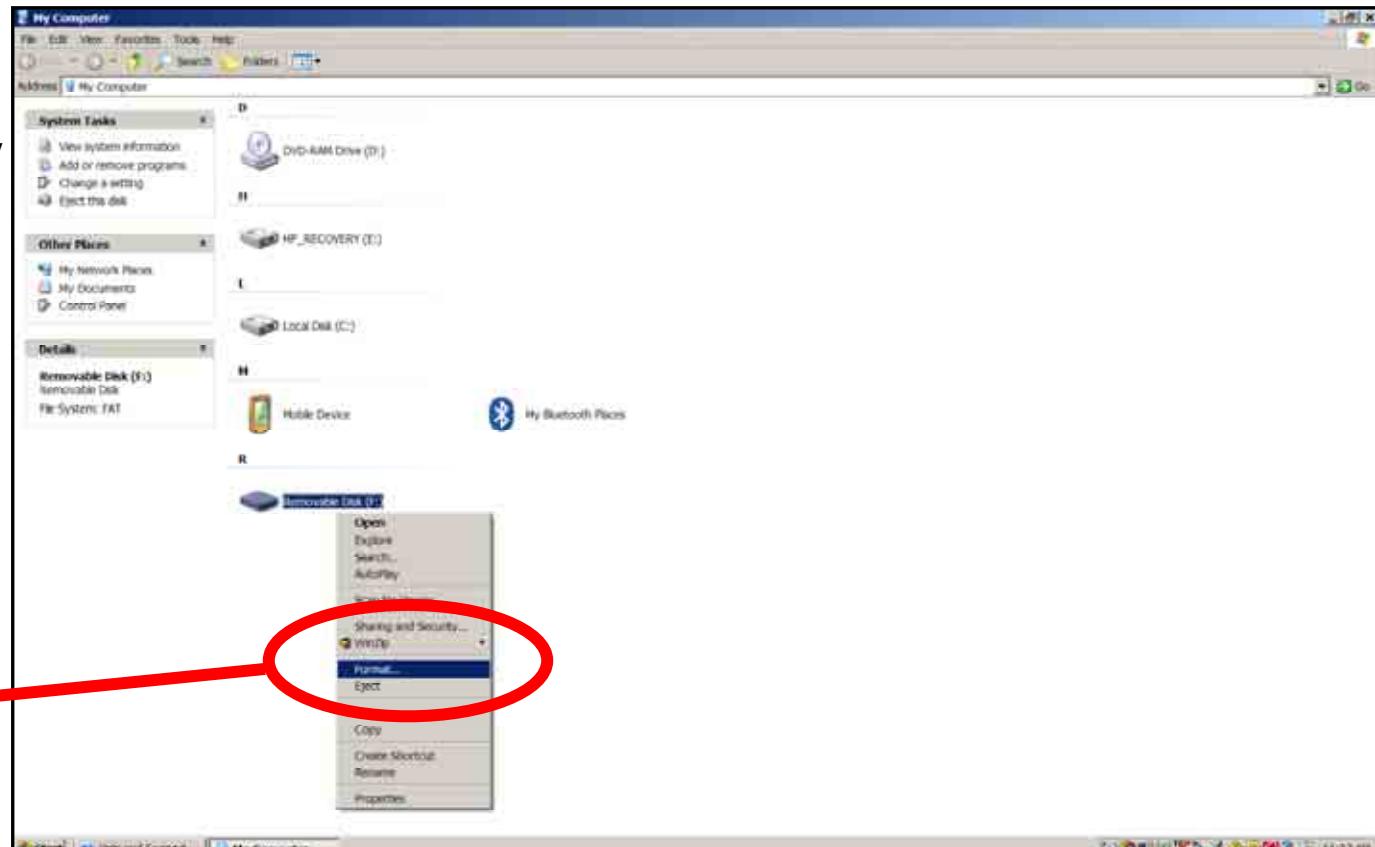
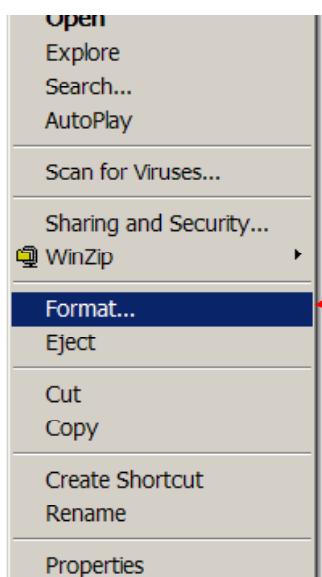
1. Right Click the **Removable Disk (F:)** where your Zip Drive or USB Flash Memory Drive is connected to on your PC.



# Formatting the Zip Disk/USB Flash Drive

## NavData Update Procedures

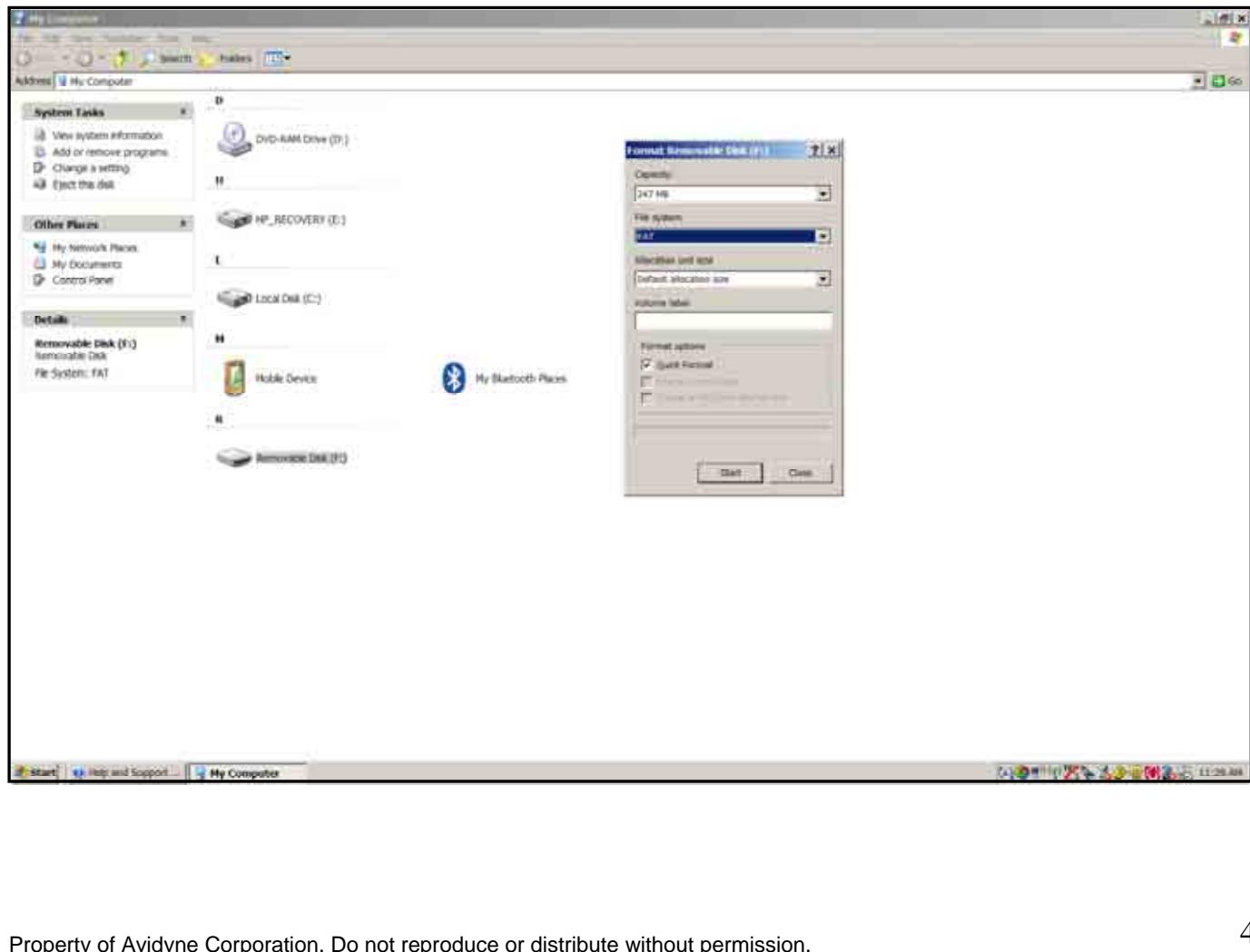
1. Right Click the **Removable Disk ()** where your Zip Drive or USB Flash Memory Drive is connected to on your PC.
2. Then left click the option **Format**.



# Formatting the Zip Disk/USB Flash Drive

## NavData Update Procedures

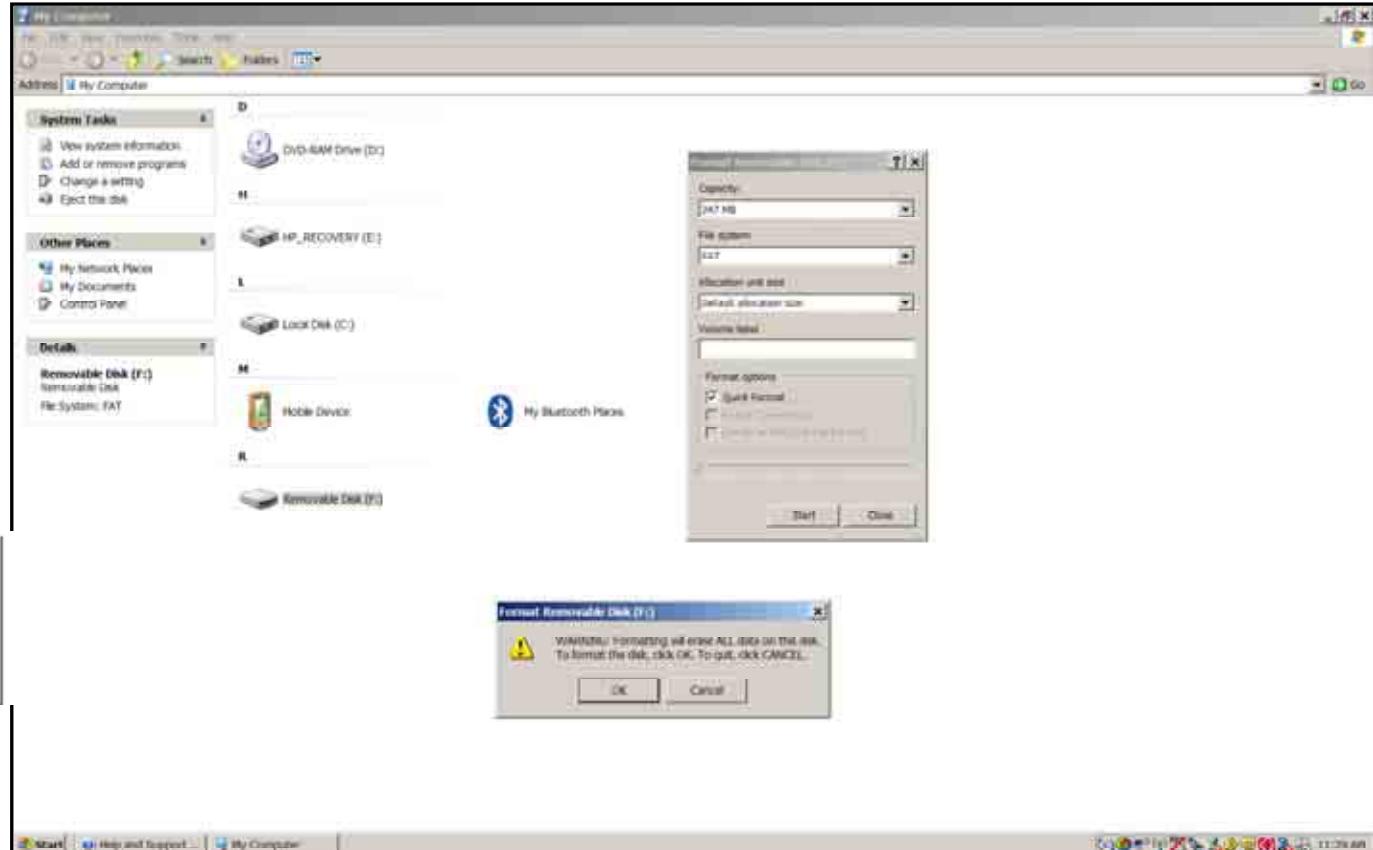
1. Then choose “FAT” under the File system selection.
2. Check Quick Format under Format Options.
3. The click Start.



# Formatting the Zip Disk/USB Flash Drive

## NavData Update Procedures

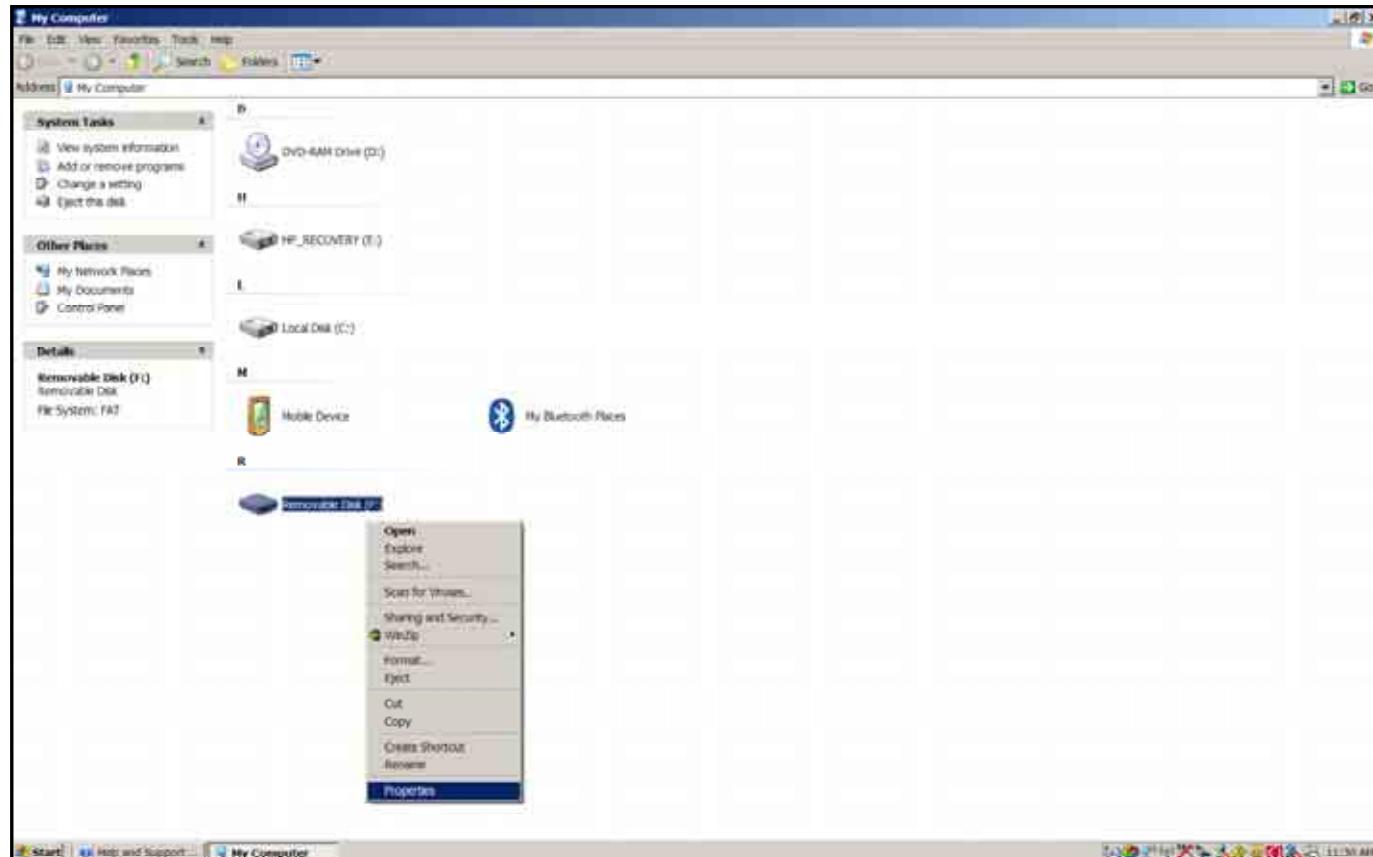
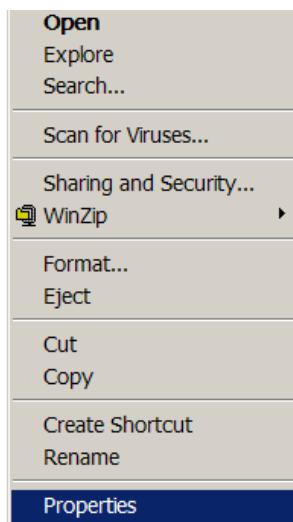
1. A Warning Box will display stating "WARNING: Formatting will erase ALL data on this disk. To format the disk, click OK, To quit, click CANCEL" You want to click OK to format and erase unnecessary data from the USB device.



# Formatting the Zip Disk/USB Flash Drive

## NavData Update Procedures

1. Next you want to verify that your USB device is correctly Formatted and is cleared of all other Data.
2. Right click the Removable Disk (F).
3. Then scroll down to Properties and then left click the Properties selection.

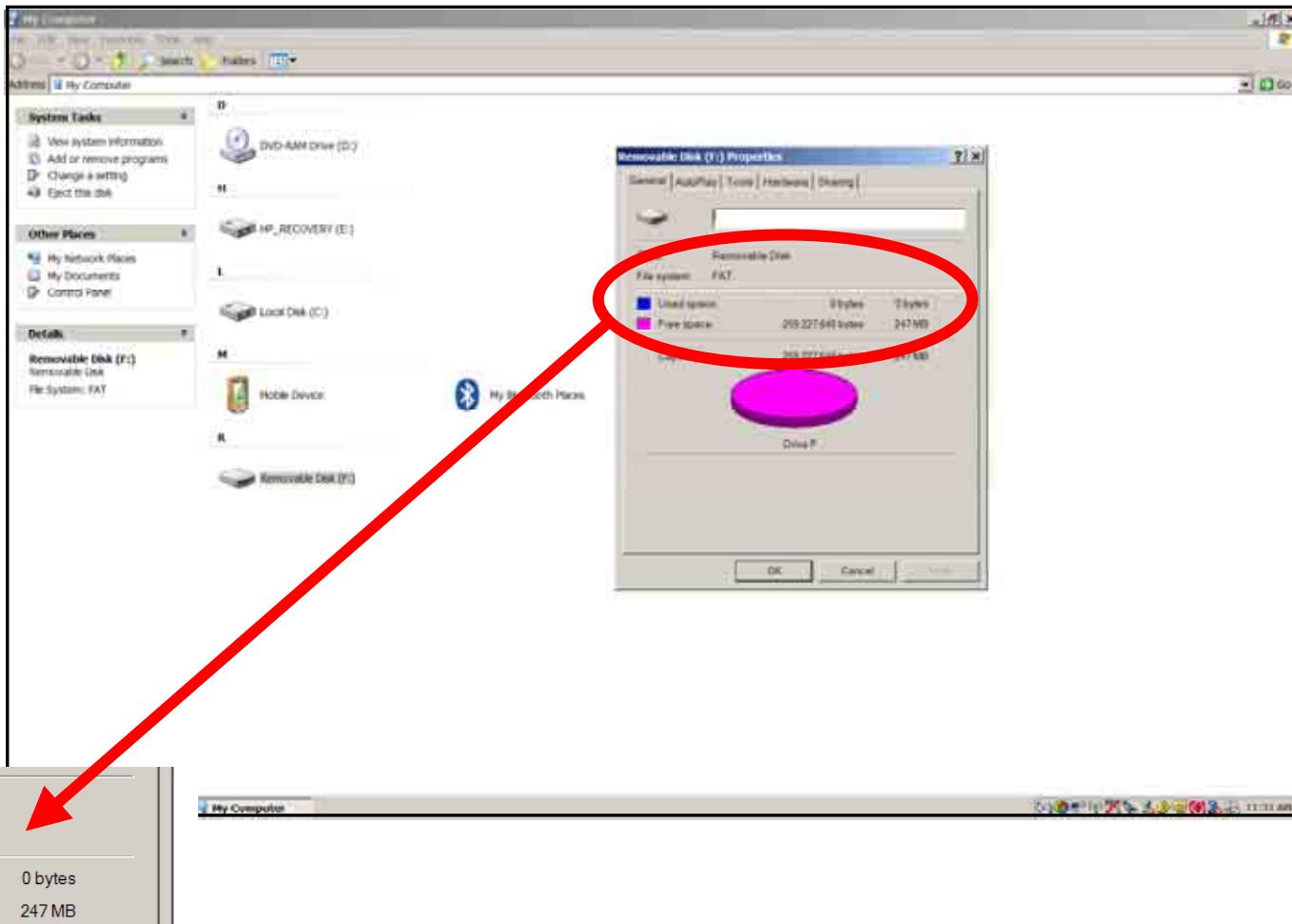


# Formatting the Zip Disk/USB Flash Drive

## NavData Update Procedures

1. Verify under File system that it shows "FAT"
2. Verify on Used space it shows 0 bytes.
3. If either File system shows other than "FAT" or under Used space it shows more than 0 bytes. Then reformat USB device again.

**Note:** Keep your USB Flash Memory Drive/Zip Drive connected to your PC for the following steps



## NavData Update Procedures

### Notes for Zip Disk users:

- If your Zip drive ejects the Zip disk without reading the update, the most likely reason is that the disk has been formatted as “FAT 32.”
- Your Zip Disk must be in “FAT” format. If you purchase a Zip Disk that is formatted as “FAT 32,” you will need to reformat it.
- When you reformat the disk, you MUST select the “FAT” file system as a format option. Windows XP defaults to “FAT 32”, which is not compatible with the EX500 or EX5000.
- For Iomega Zip Disk Users: Do not install the Iomega Tools disk on your PC. The Iomega tools will not allow you to use the “FAT” file system format. If you already have the Iomega tools installed, uninstall them.

# USB Flash Memory Drive Users

## NavData Update Procedures

### Notes for USB Flash Memory users:

- Due to system constraints, you cannot download both CMax Chart Data and NavData on the same USB Flash Memory device at the same time. Therefore, Avidyne suggests that you keep one USB Flash memory drive for CMax and another for NavData (and, if your aircraft is equipped with EMax, one more USB device to load EMax data from your MFD to the PC).
- Many USB Flash Memory Drives are now delivered with U3 Launchpad installed. This application, from U3, prevents any Jeppesen data (NavData) from loading. If your USB Flash Memory Drive has U3 Launchpad, you must uninstall it. For information about uninstalling U3 Launchpad, see [www.u3.com/support/](http://www.u3.com/support/) or [www.u3.com/uninstall/](http://www.u3.com/uninstall/).
- Avidyne recommends using a USB 2.0 Flash Memory Drive with a size of 128MB, 256MB, or 512MB for Nav Data updates and a USB 2.0 Flash Memory Drive with a size of 256MB or 512MB for CMax Chart Data. Avidyne recommends not using a 1GB USB Memory Drive or larger for Nav Data updates or CMax. Please visit [www.avidyne.com/products/  
USB%20flash%20support.pdf](http://www.avidyne.com/products/USB%20flash%20support.pdf) for a complete list of Avidyne tested USB 2.0 Flash Memory devices.

# Updating NavData by JSUM

## NavData Update Procedures

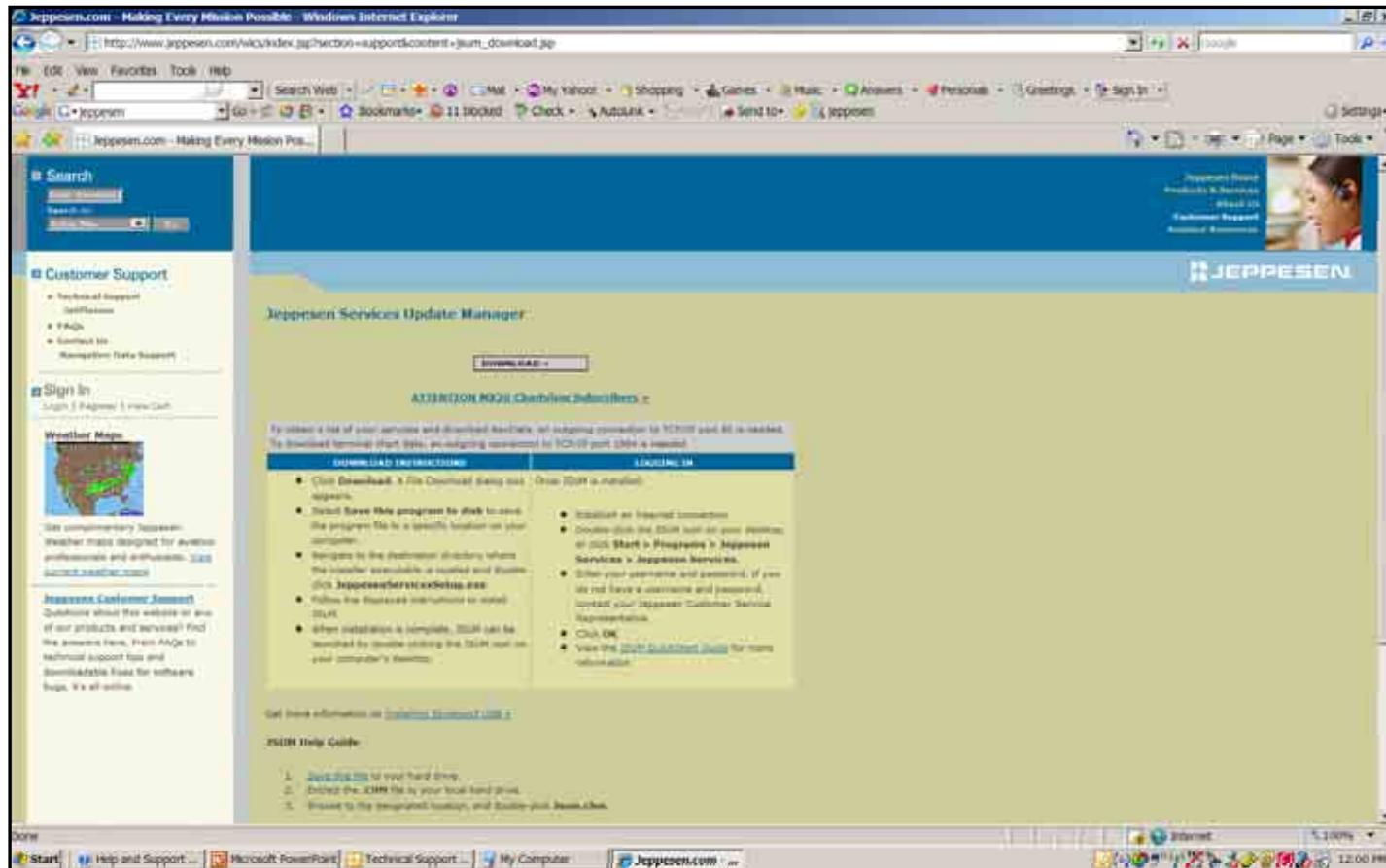
1. After you have ordered your Jeppesen NavData updates.
2. Then visit Jeppesen website to download Jeppesen's latest version of Jeppesen Services Update Manager (JSUM) application.

The screenshot shows the Jeppesen website homepage. On the left, there is a sidebar with links for 'Search', 'Sign In', 'Weather Maps' (showing a map of the United States with weather icons), 'Jeppesen Quick Links' (including 'Careers@Jeppesen', 'Customer Support', 'FAQs', 'Feedback', 'Online Publications', 'Shop Online', and 'FlightPlan Services Update'), and 'Other Jeppesen Sites' (such as 'Airspace Design', 'Carmen Systems', 'Dealer Locator', 'EasyBrief', 'eLoadsheet Weight & Balance', 'International Trip Planning', 'Jeppesen World Fuel Services', 'JetPlan.com', and 'Nobelties'). The main content area features a large banner with the headline 'Making Every Mission Possible'. Below the banner are six service highlights with images: 'Business Aviation', 'Commercial Aviation', 'General Aviation', 'Government and Military Aviation', 'Marine', and 'Rail and Logistics'. To the right, there are three columns of links: 'Alerts' (including 'NavData & Chart Notices', 'NOTAMS and Alerts', 'Effective 07 JUN 07 Charts', and 'MS Visit Support Notice'); 'Software Updates' (including 'JeppView/EliteDeck version 3.3 Change Guide and Tutorial', 'EliteStar Tutorial, User's Guide and Software Patches'); and 'News and Current Events' (including 'EBACE 2007—Simplified Pricing for Int'l Trip Planning', 'Jeppesen to Standardize Runway Incursion Hot Spot Decisions', 'Jeppesen to Deliver EFB Solutions to ANA', and 'View All Press Releases'). A 'Featured Product' section at the bottom right highlights 'SIMCharts 4.0 for Microsoft Flight Simulator X - now just \$49.95!'.

# Updating NavData by JSUM

## NavData Update Procedures

1. Remember to always download the latest version of the Jeppesen Services Update Manager (JSUM) on to your PC.



# Updating NavData by JSUM

## NavData Update Procedures

1. You should have a Jeppesen Services icon located on your PC desktop to be able to log into JSUM.



# Updating NavData by JSUM

## NavData Update Procedures

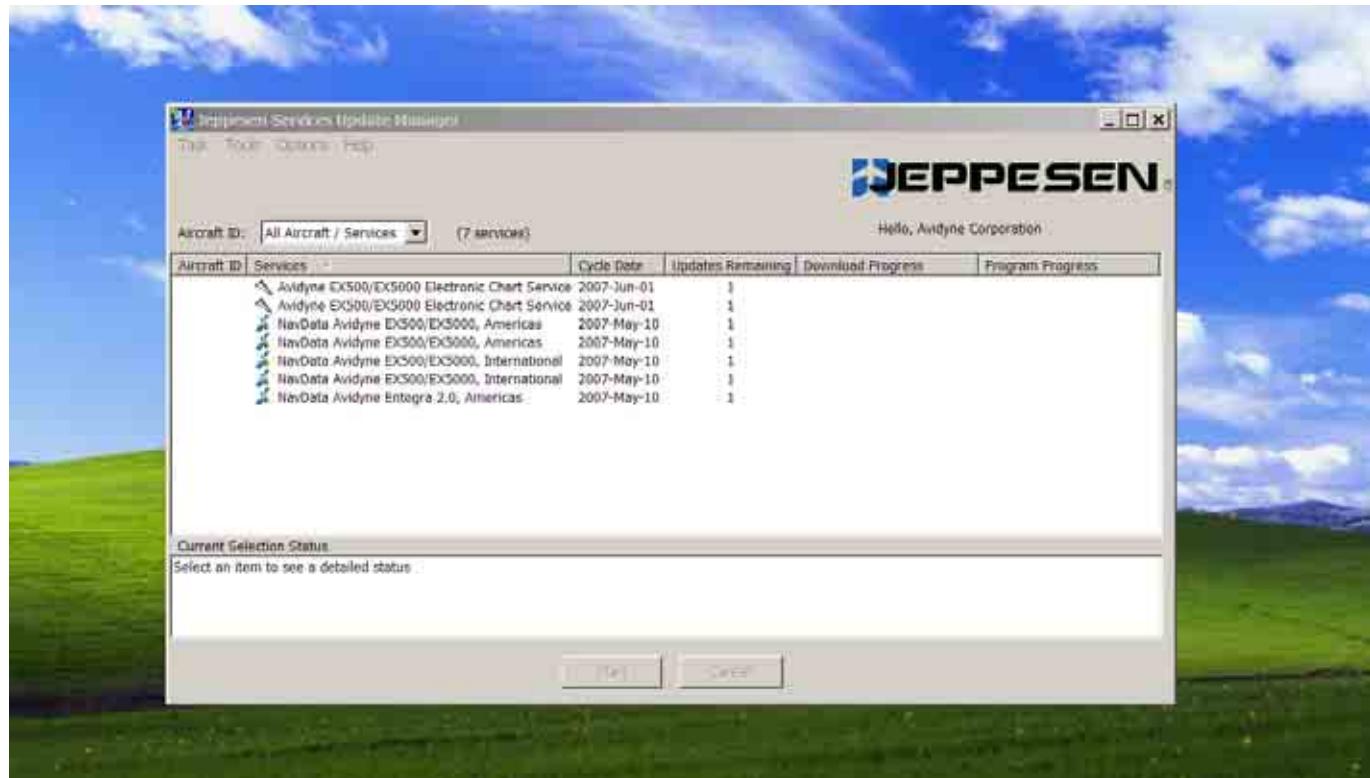
1. Next locate your JSUM Username and Password you have written down and log into JSUM.



# Updating NavData by JSUM

## NavData Update Procedures

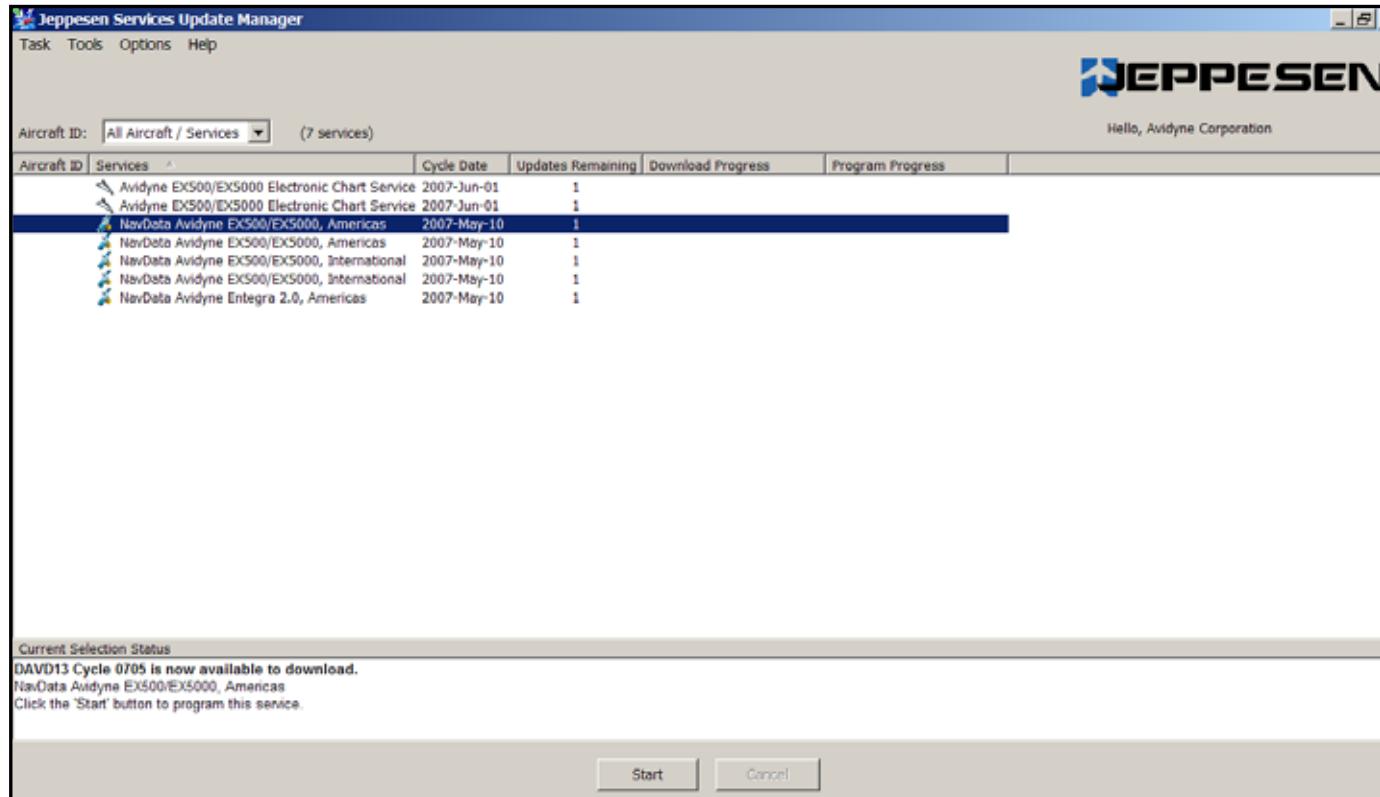
1. All your current Jeppesen subscriptions for your Avidyne MFDs will be shown.



# Updating NavData by JSUM

## NavData Update Procedures

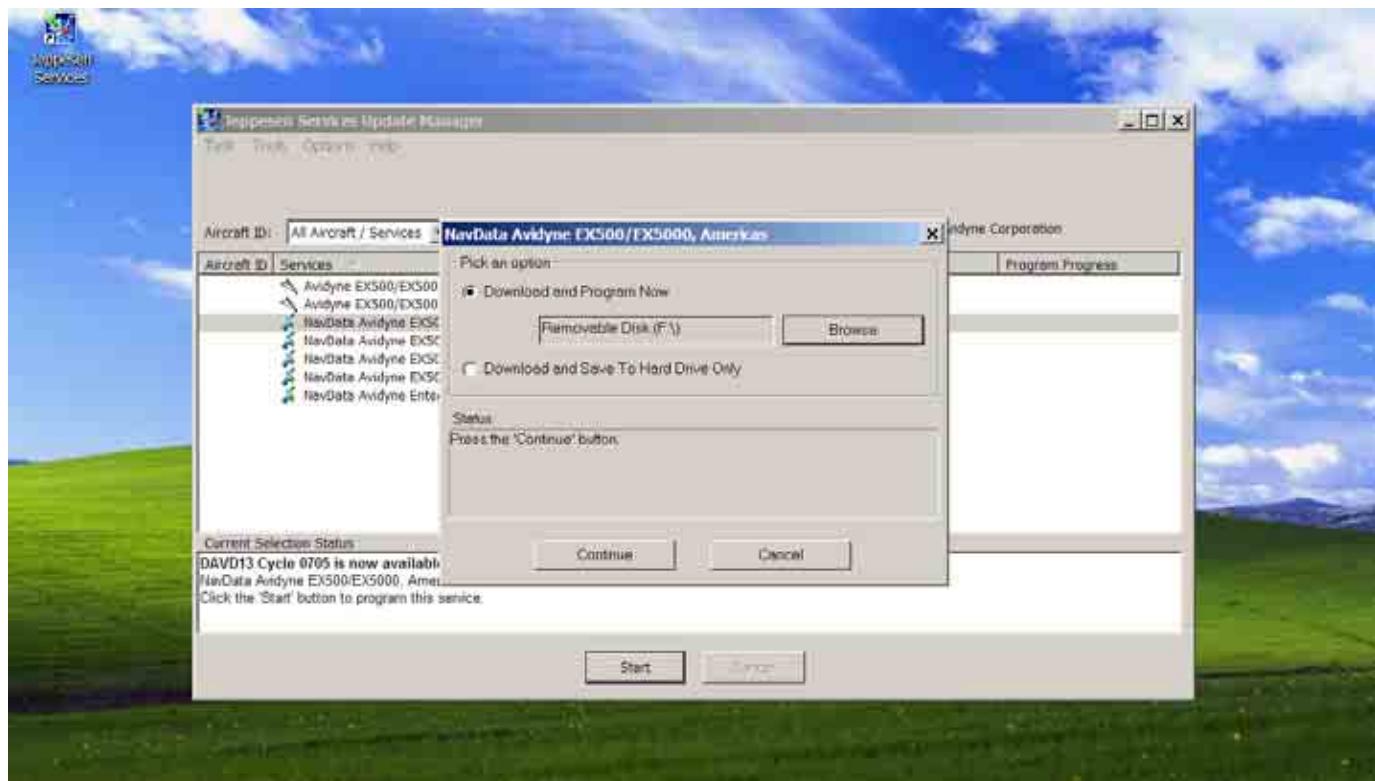
1. Select the NavData Avidyne EX500/EX5000 for your region to download to your USB Flash Memory Drive/Zip Drive already connected to your PC.



# Updating NavData by JSUM

## NavData Update Procedures

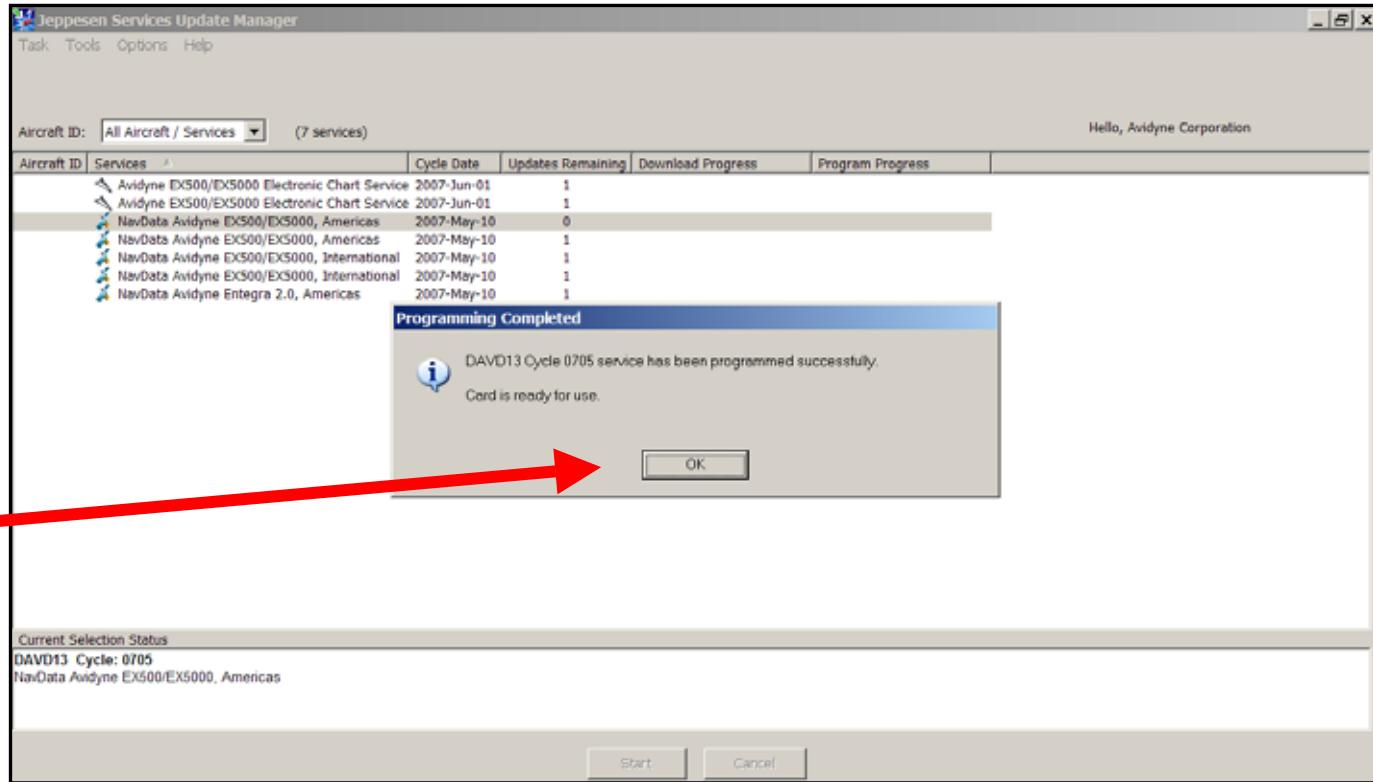
1. Select the Download and Program Now option.
2. Next Browse for your Removable Disk drive where your USB Flash Memory Drive/Zip Drive is connected too.
3. Then click Continue.



# Updating NavData by JSUM

## NavData Update Procedures

- Once the NavData Avidyne EX500/EX5000 Updates have been downloaded successfully into your USB Flash Memory Drive/Zip Drive you will receive the following message "Programming Completed". Click OK



- Then disconnect your USB Flash Memory Drive/Zip Drive from your PC and take it out to your Aircraft to upload the NavData updates to your Avidyne MFD.

# Updating NavData by Jeppesen CDs

## NavData Update Procedures

1. Once you've placed your CD order with Jeppesen for the NavData updates for your Avidyne MFDs

The screenshot shows the Jeppesen website's 'Products & Services' section. The main heading is 'JeppView for MFDs: Jepperson Electronic Chart Data for Multi-Function Displays'. Below the heading, it says: 'JeppView® for MultiFunction Displays is the latest innovation from Jeppesen. By uploading JeppView charts directly to the MFD, the amount of paper required in the aircraft is greatly reduced. Want better situational awareness? Check out the aircraft position spotter on the geo-referenced Jeppesen charts. Managing and accessing flight critical information has never been easier.' It also mentions support for Avidyne and Garmin MFDs, with a phone number: 1-800-621-5377.

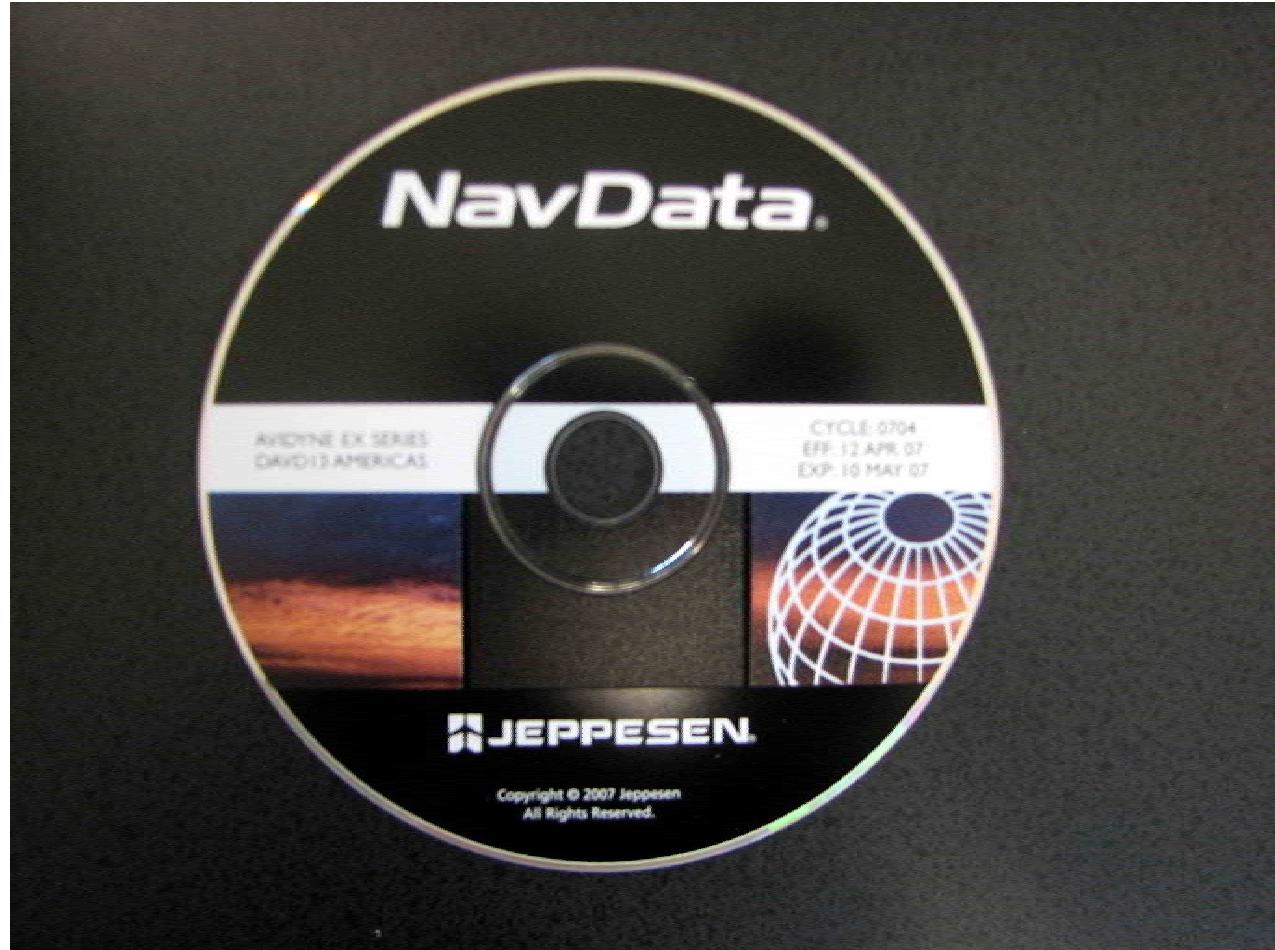
The page lists several services:

- JeppView viewer application:** Allows viewing and printing Jeppesen charts (approach, arrival, departure, airport, and class B airspace) from a ground-based PC for flight planning purposes.
- JeppView Services Update Manager Application:** Allows exporting Jeppesen charts (approach, arrival, departure, airport, and class B airspace) to an on-board multi-function display for inflight use.
- JeppView electronic chart data:** Allows updating Jeppesen charts (approach, arrival, departure, airport, and class B airspace) every 14 days.
- JeppView electronic text pages:** Allows updating Jeppesen text pages. Updates are issued only as required.
- Paper Enroute Charts and Area Charts:** Included with the service, updates are issued only as required.

# Updating NavData by Jeppesen CDs

## NavData Update Procedures

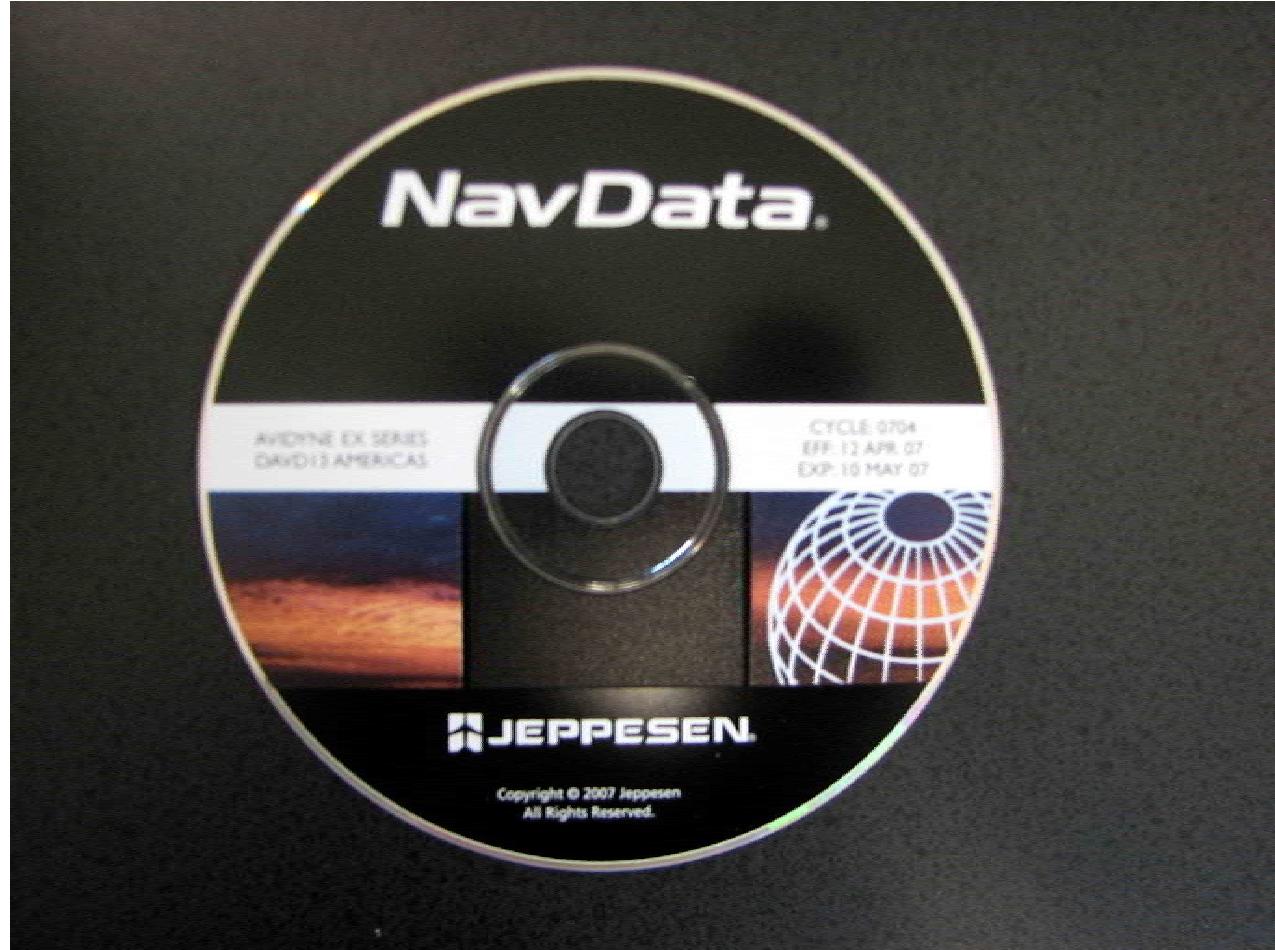
1. You will receive your Jeppesen NavData updates CDs by mail.



# Updating NavData by Jeppesen CDs

## NavData Update Procedures

1. First, verify that your “FAT” formatted USB Flash Memory Drive/Zip Drive is still connected to your PC.
  
2. Next, take your Jeppesen NavData update CD and insert it into your PC.



# Updating NavData by Jeppesen CDs

## NavData Update Procedures

1. After inserting the Jeppesen NavData update CD into your PC a Avidyne Navigation Data Update window will display.
2. Select “Install Flightmax Navigation Data Disk to F:\” or whatever Removable Disk drive you have your USB device connected on your PC.



# Uploading the NavData to the MFD

## NavData Update Procedures

- 1. First verify you have adequate power supply to your MFD and a completely charged aircraft battery or ground power unit to power your MFD.**
  
- 2. Carefully remove the USB port cover so you can connect your USB Flash Memory Drive to your MFD USB port.**
  
- 3. Then power up your Aircraft avionics power to power up the MFD.**
  
- 4. Next follow the MFD screen prompts to upload your NavData updates to the MFD.**



# Uploading the NavData to the MFD

## NavData Update Procedures

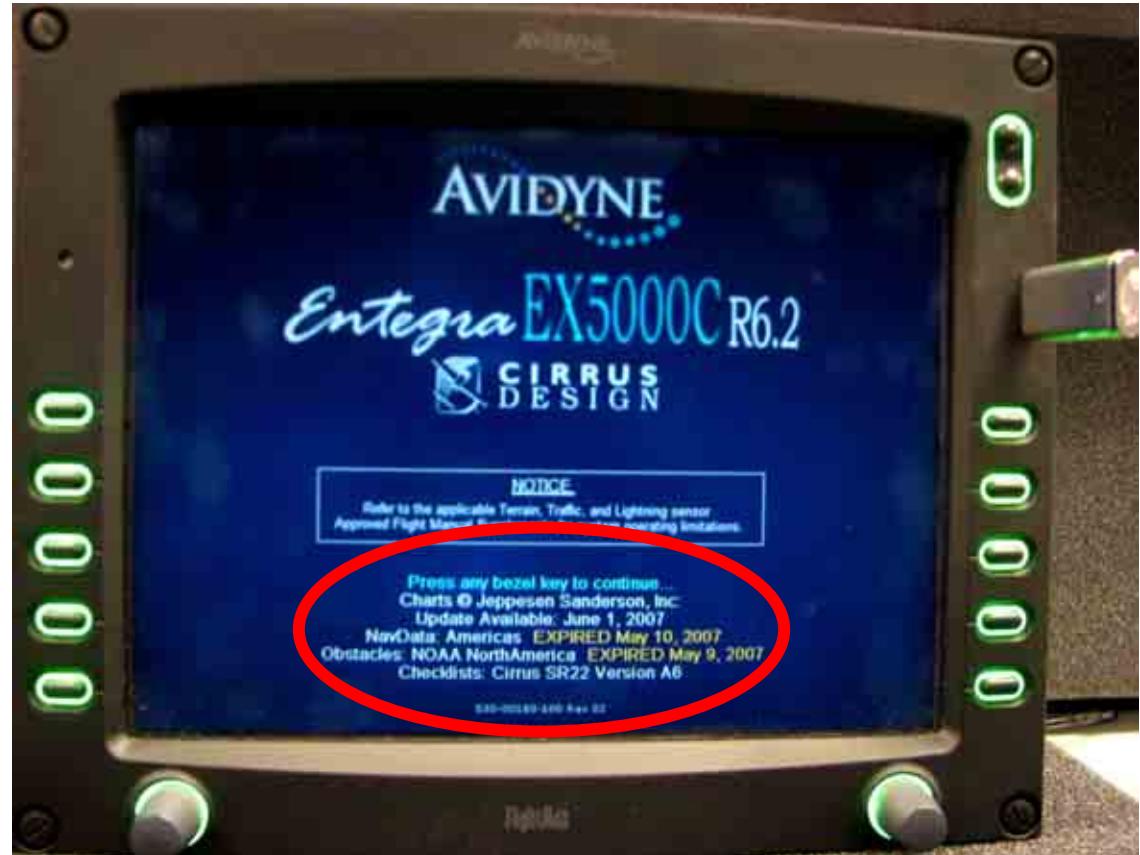
- 1. First verify you have adequate power supply and a completely charged aircraft battery or ground power unit to power your MFD.**
- 2. Carefully remove the USB cover so you can connect your Zip Drive dataloader to your MFD USB port with the Zip disk not inserted.**
- 3. Then power up your Aircraft avionics power to power up the MFD.**
- 4. When you see the FlightMax logo screen insert the Zip disk into the Zip Drive dataloader.**
- 5. Next follow the MFD screen prompts to upload your NavData updates to the MFD.**



# Uploading the NavData to the MFD

## NavData Update Procedures

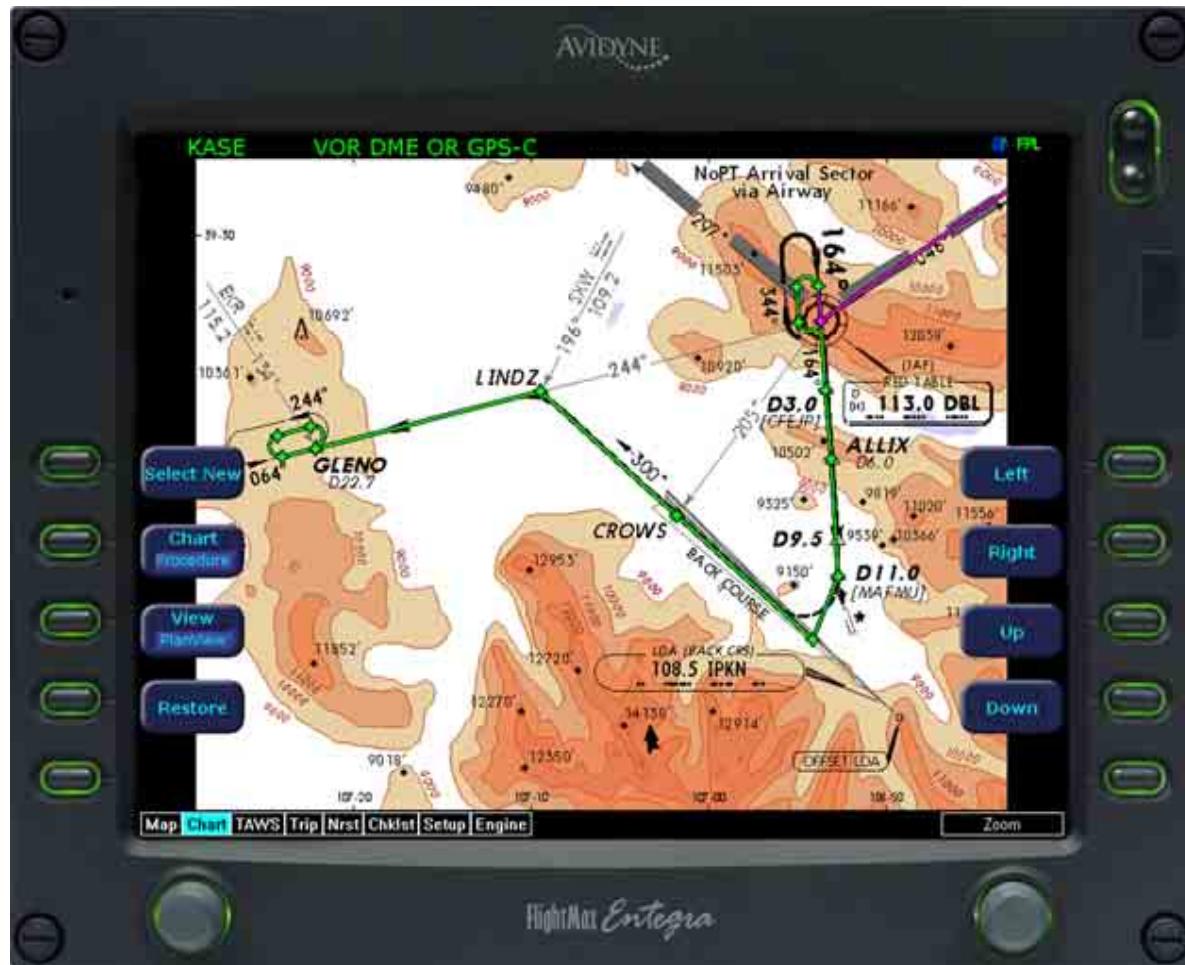
1. Verify the NavData updates subscription dates are correctly shown on the MFD display.
2. Disconnect the USB Flash Memory Drive/Zip Drive from your MFD.





# EX5000/EX500 MFD

## CMax Chart Data Update Procedures

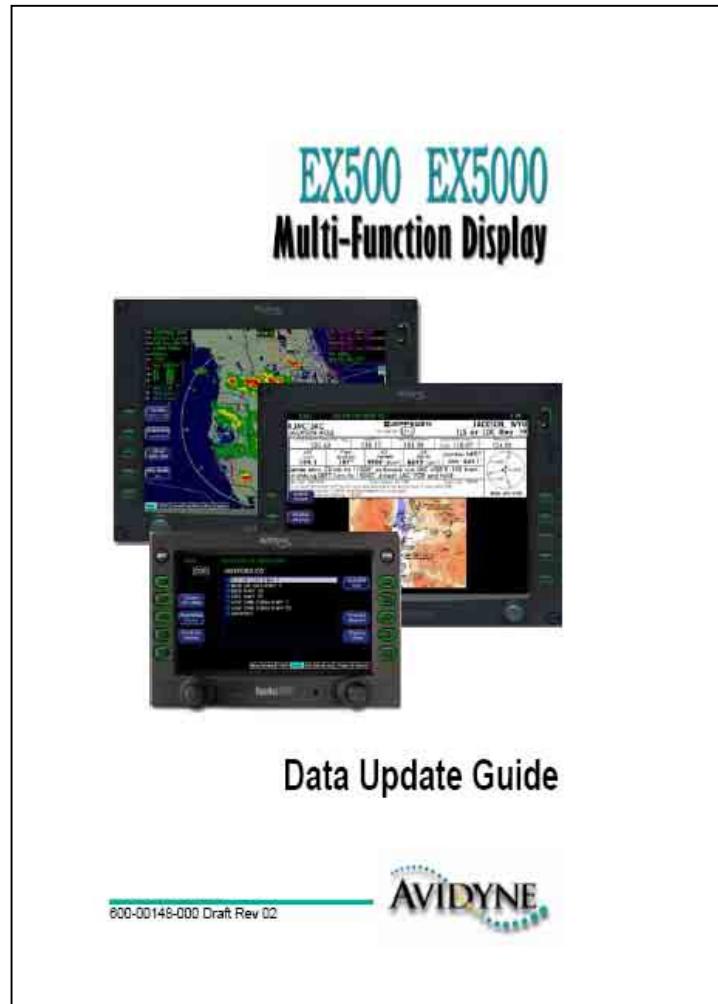


# CMax Chart Data Update Procedures

Always refer to the EX500 EX5000 Multi-Function Display Data Update Guide for reference in completing the CMax Chart Data update procedure.

This guide is available to download off Avidyne's website [www.avidyne.com](http://www.avidyne.com) in the Products/Publications Library menu.

<http://www.avidyne.com/techpubs.shtm>



# Minimum System Requirements

## CMax Chart Data Update Procedures

**Minimum System Requirements to install and run the Jeppesen JeppView package:**

- Microsoft Window 2000 SP3, XP SP2, or XP Tablet PC Edition
- 1 GHz or higher processor
- 800 X 600 resolution display or larger
- 512 MB RAM or better
- 2.75 GB available hard drive space or higher
- 64 MB video card or better
- 8x CD-ROM drive
- Broadband Internet connection for online download of program updates



# Minimum Equipment Requirements

## CMax Chart Data Update Procedures

**Minimum Equipment Requirements to upload  
the Jeppesen NavData updates:**

**For Zip Disk User:**

- **Portable USB-compatible Zip Drive. Use Avidyne part number 200-00048-000 or another USB Zip device.**
- **250MB or 750MB Zip Disk and Zip Drive dataloader.**

**For USB Flash Memory Drive User:**

- **256MB or 512MB USB Flash Memory Drive**

See [www.Avidyne.com](http://www.Avidyne.com) for a list of approved USB Flash Memory Devices.



# Avidyne Approved USB Flash Memory Devices

## CMax Chart Data Update Procedures

Manufacturer	Product	Size
Apacer	HandySteno	256
Apacer	AudioSteno	512
Kingston	Data Traveler	256
Kingston	Data Traveler	512
PNY	Attache	256
PNY	Attache	512
Sandisk	Cruzer Mini	256
Sandisk	Cruzer Mini	512
SmartModular	USB-IF Hi-Speed 2.0	256
SmartModular	USB-IF Hi-Speed 2.0	512
Transcend	JetFlash	256
Transcend	JetFlash	512

Avidyne recommends that you dedicate an Avidyne-approved USB Flash Memory Drive solely for data transfer to and from your EX5000, and not mix usage of this Flash Memory Drive with other devices.

# EX500/EX500 MFD

## CMax Chart Data Update Procedures

1. Before ordering the Jeppesen Electronic Chart Data subscription verify that your Avidyne MFD does have the CMax Chart option by viewing the Chart tab on the bottom of the Map page.
2. If your Avidyne MFD does not have the CMax Chart option you can contact your nearest Avidyne Distributor or Service Center to order the Avidyne CMax Chart option.



# Ordering CMax Chart Data Updates

## CMax Chart Data Update Procedures

1. First visit Jeppesen website [www.Jeppesen.com](http://www.Jeppesen.com) or contact by phone at 1-800-621-5377 to place your order for the Jeppesen Electronic CMax Chart Data updates for your Avidyne MFDs.
2. Contact Jeppesen 7 Days per week 6 AM-8 PM MT Call 1-800-621-5377

The screenshot shows the Jeppesen website with a sidebar on the left containing search, products & services, sign-in, and weather information. The main content area displays the JeppView for MFDs product page, featuring a navigation menu, a brief description, and four sections detailing the included software: JeppView viewer application, JeppView Services Update Manager Application, JeppView electronic chart data, and JeppView electronic text pages. Each section includes an icon and a brief description.

## CMax Chart Data Update Procedures

1. Go to [www.MyAvidyne.com](http://www.MyAvidyne.com)
2. Go to Return Account Users and log in using your saved User ID and Password and Click Login.



# Generating a CMax Key Code

## CMax Chart Data Update Procedures

1. Verify your Jeppesen Software Serial Number on the package that you received from Jeppesen or call Jeppesen.

2. Next click on CMax Key Code menu to generate a Avidyne CMax Key Code.



# Generating a CMax Key Code

## CMax Chart Data Update Procedures

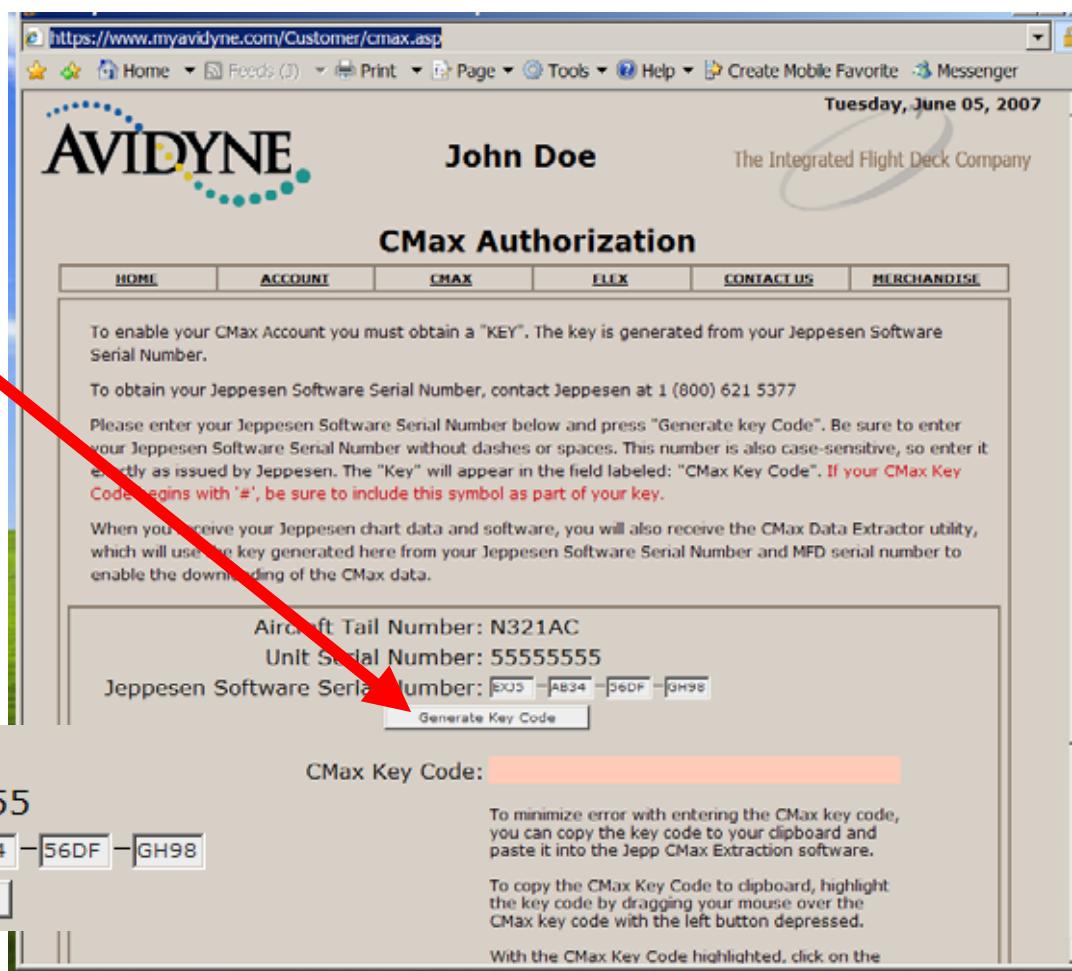
1. Enter your Jeppesen Software Serial Number without any dashes or spaces. This Jeppesen Software Serial Number is case sensitive enter the letters and numbers as all CAPS.

The screenshot shows a web browser window for the Avidyne Customer Portal at <https://www.myavidyne.com/Customer/cmax.asp>. The page title is "CMax Authorization". The header includes the AVIDYNE logo, the user name "John Doe", and the tagline "The Integrated Flight Deck Company". The main content area contains instructions for generating a CMax key code from a Jeppesen Software Serial Number. It also displays aircraft tail number N321AC, unit serial number 55555555, and a field for the Jeppesen Software Serial Number (input masked as [REDACTED]-[REDACTED]-[REDACTED]-[REDACTED]). A "Generate Key Code" button is present. Below the input fields, a "CMax Key Code:" field is shown with its value masked as [REDACTED]. A note below the key code field explains how to minimize errors by copying and pasting the key code. At the bottom, there is a copyright notice for Avidyne Corporation.

# Generating a CMax Key Code

## CMax Chart Data Update Procedures

1. **Next click on Generate Key Code.**



Aircraft Tail Number: N321AC

Unit Serial Number: 55555555

Jeppesen Software Serial Number: EXJ5 - AB34 - 56DF - GH98

**Generate Key Code**

# Generating a CMax Key Code

## CMax Chart Data Update Procedures

1. The CMax Key Code will generate below.

The screenshot shows two side-by-side web pages from the Avidyne website. Both pages have identical header information: the URL https://www.myavidyne.com/Customer/cmax.asp, a browser toolbar with icons for Home, Feeds, Print, Page, Tools, Help, Create Mobile Favorite, and Messenger, the date Tuesday, June 05, 2007, and the Avidyne logo with the tagline "The Integrated Flight Deck Company". The top page is titled "CMax Authorization" and contains instructions for generating a key code. It says: "To enable your CMax Account you must obtain a "KEY". The key is generated from your Jeppesen Software Serial Number." Below this, it asks to contact Jeppesen at 1 (800) 621 5377. It then instructs users to enter their Jeppesen Software Serial Number without dashes or spaces, noting that the number is case-sensitive. It also specifies that if the CMax Key Code begins with '#', it should be included. The bottom page shows the same form fields filled out with sample data: Aircraft Tail Number: N321AC, Unit Serial Number: 55555555, and Jeppesen Software Serial Number: EXJ5-AB34-560F-GH98. A red circle highlights the "Generate Key Code" button and the resulting CMax Key Code: 8jDGIBxig5xdylafe912BYY. Below the key code, there are instructions for minimizing errors by copying it to the clipboard and pasting it into the CMax Extraction software, and for copying the key code to the clipboard by dragging over it with the left mouse button.

Aircraft Tail Number: N321AC  
Unit Serial Number: 55555555  
Jeppesen Software Serial Number: EXJ5-AB34-560F-GH98  
Generate Key Code

CMax Key Code: 8jDGIBxig5xdylafe912BYY

Aircraft Tail Number: N321AC  
Unit Serial Number: 55555555  
Jeppesen Software Serial Number: EXJ5-AB34-560F-GH98  
Generate Key Code

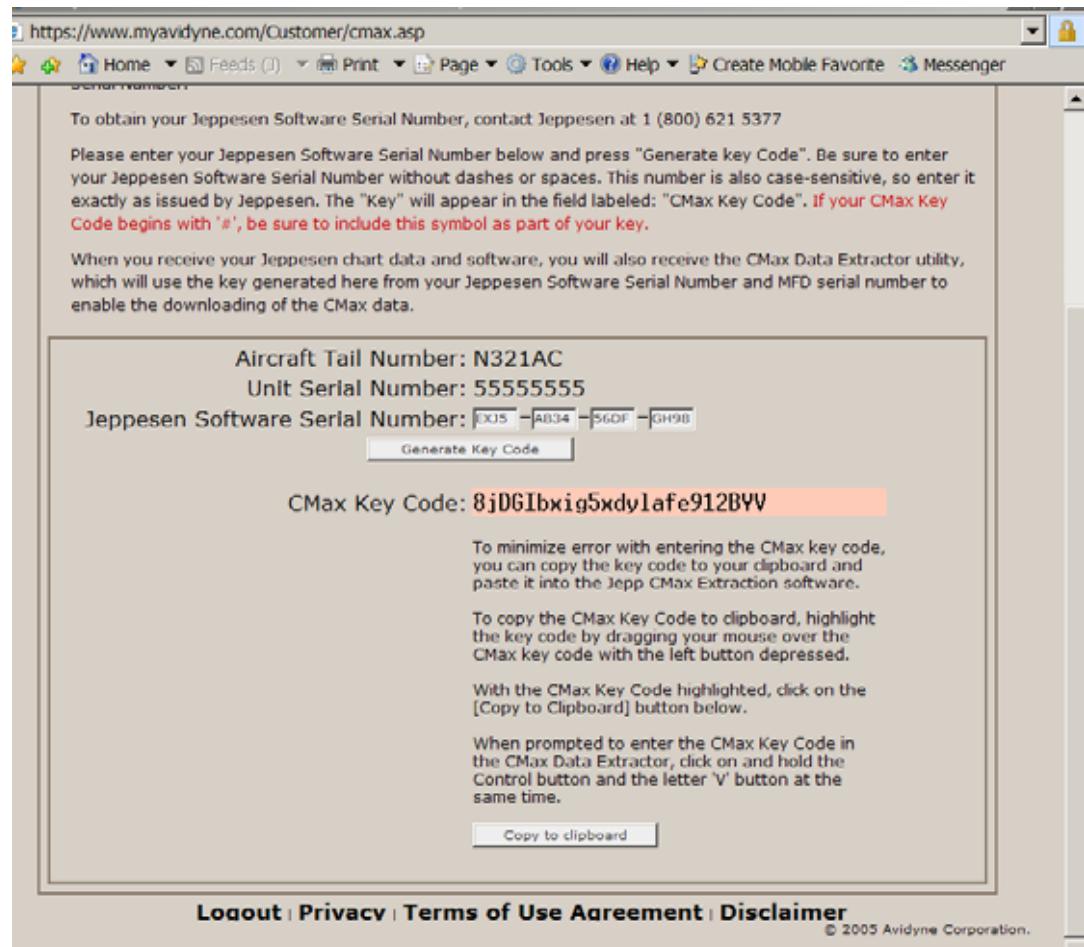
CMax Key Code: 8jDGIBxig5xdylafe912BYY

To minimize error with entering the CMax key code, you can copy the key code to your clipboard and paste it into the Jepp CMax Extraction software.  
To copy the CMax Key Code to clipboard, highlight the key code by dragging your mouse over the CMax key code with the left button depressed.  
With the CMax Key Code highlighted, click on the

# Generating a CMax Key Code

## CMax Chart Data Update Procedures

- 1. To save your CMax Key Code you can use the Copy to Clipboard function to copy and paste this CMax Key Code to either the Jeppesen Services Update Manager (JSUM) application or the Avidyne CMax Data Extractor application.**
- 2. To Copy and Paste this CMax Key Code just highlight the key code by dragging you mouse over the CMax Key Code with the Left button depressed on the mouse.**
- 3. With the CMax Key Code highlighted, click on the Copy to Clipboard button.**



# Formatting the Zip Disk/USB Flash Drive

## CMax Chart Data Update Procedures

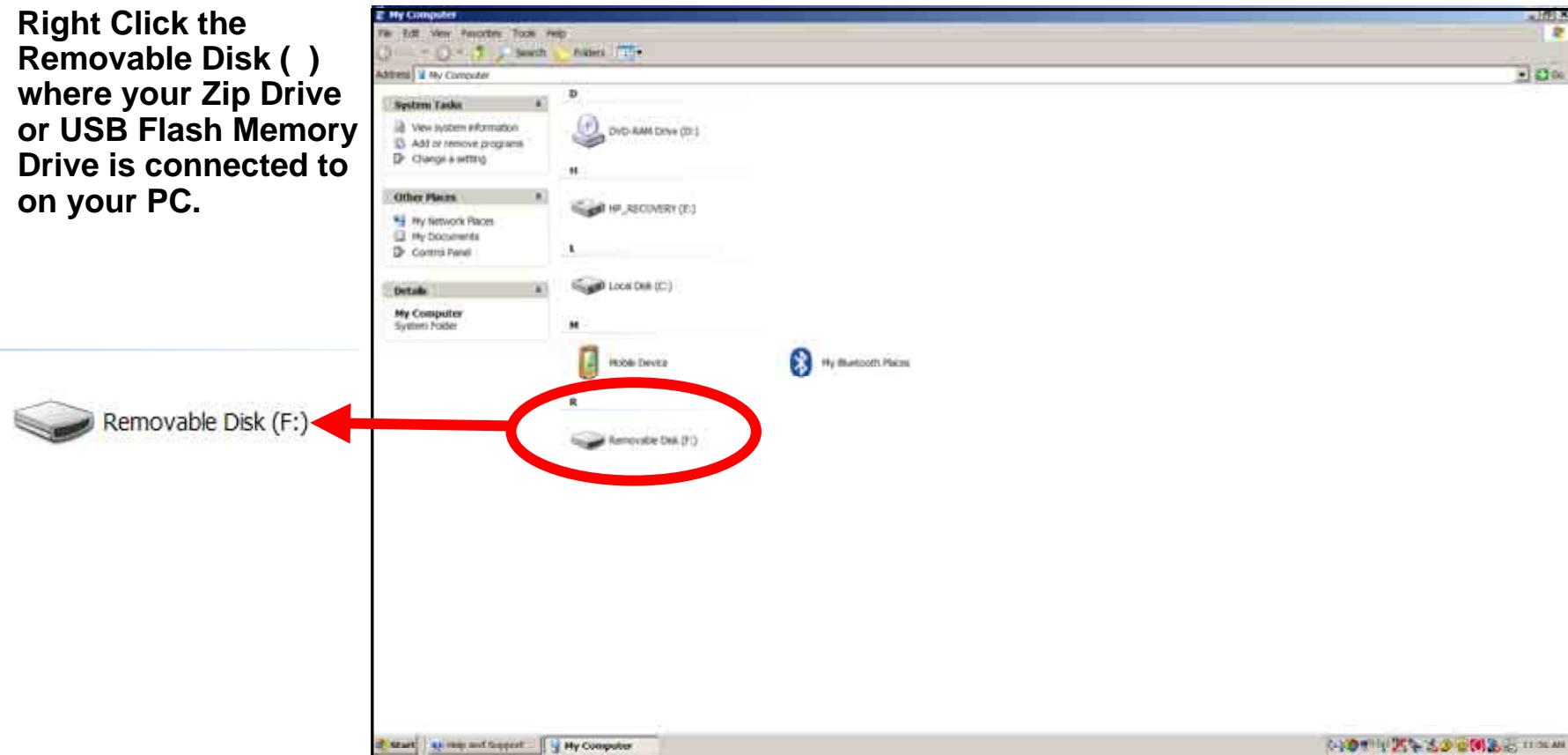
1. **Connect your Zip Drive Dataloader with the Zip Disk inserted into your USB port on your PC OR connect your USB Flash Memory Drive into your USB port on your PC.**
  
2. **Double left click the My Computer Icon on your PC Desktop.**



# Formatting the Zip Disk/USB Flash Drive

## CMax Chart Data Update Procedures

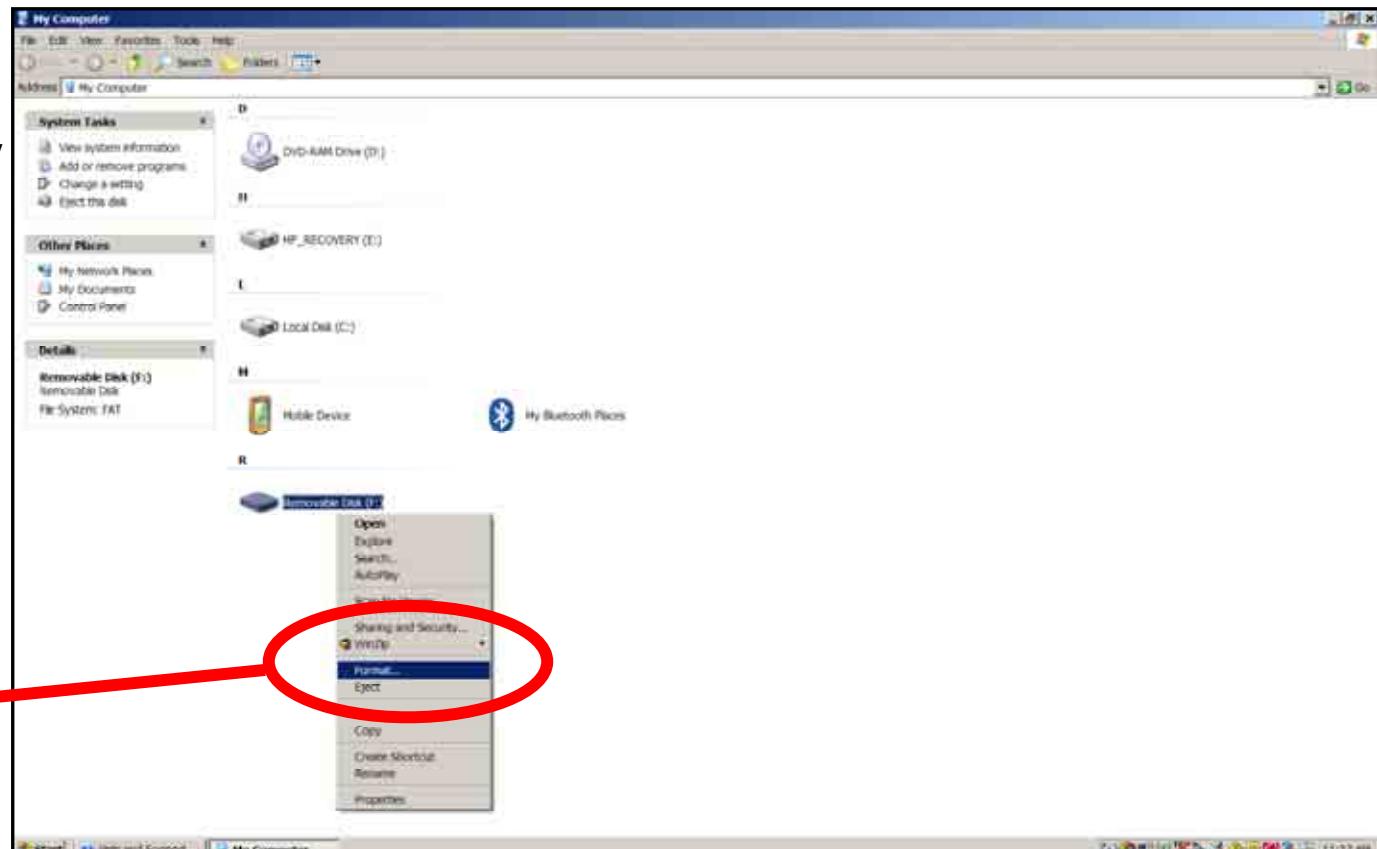
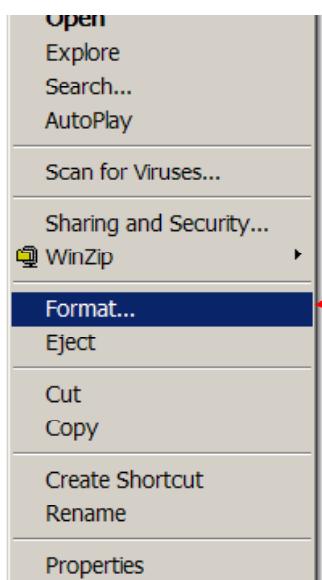
1. Right Click the Removable Disk ( ) where your Zip Drive or USB Flash Memory Drive is connected to on your PC.



# Formatting the Zip Disk/USB Flash Drive

## CMax Chart Data Update Procedures

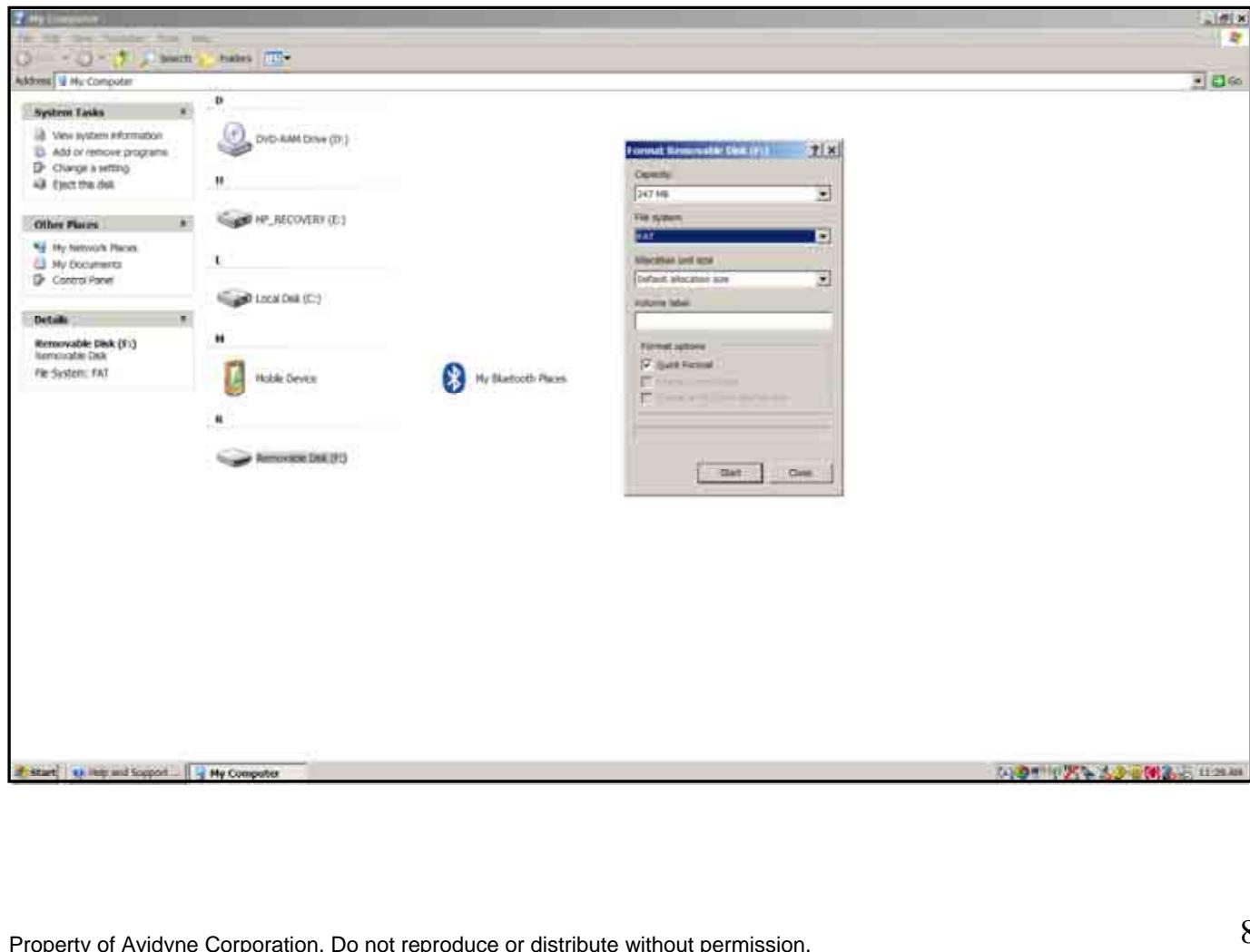
1. Right Click the Removable Disk ( ) where your Zip Drive or USB Flash Memory Drive is connected to on your PC.
2. Then left click the option Format



# Formatting the Zip Disk/USB Flash Drive

## CMax Chart Data Update Procedures

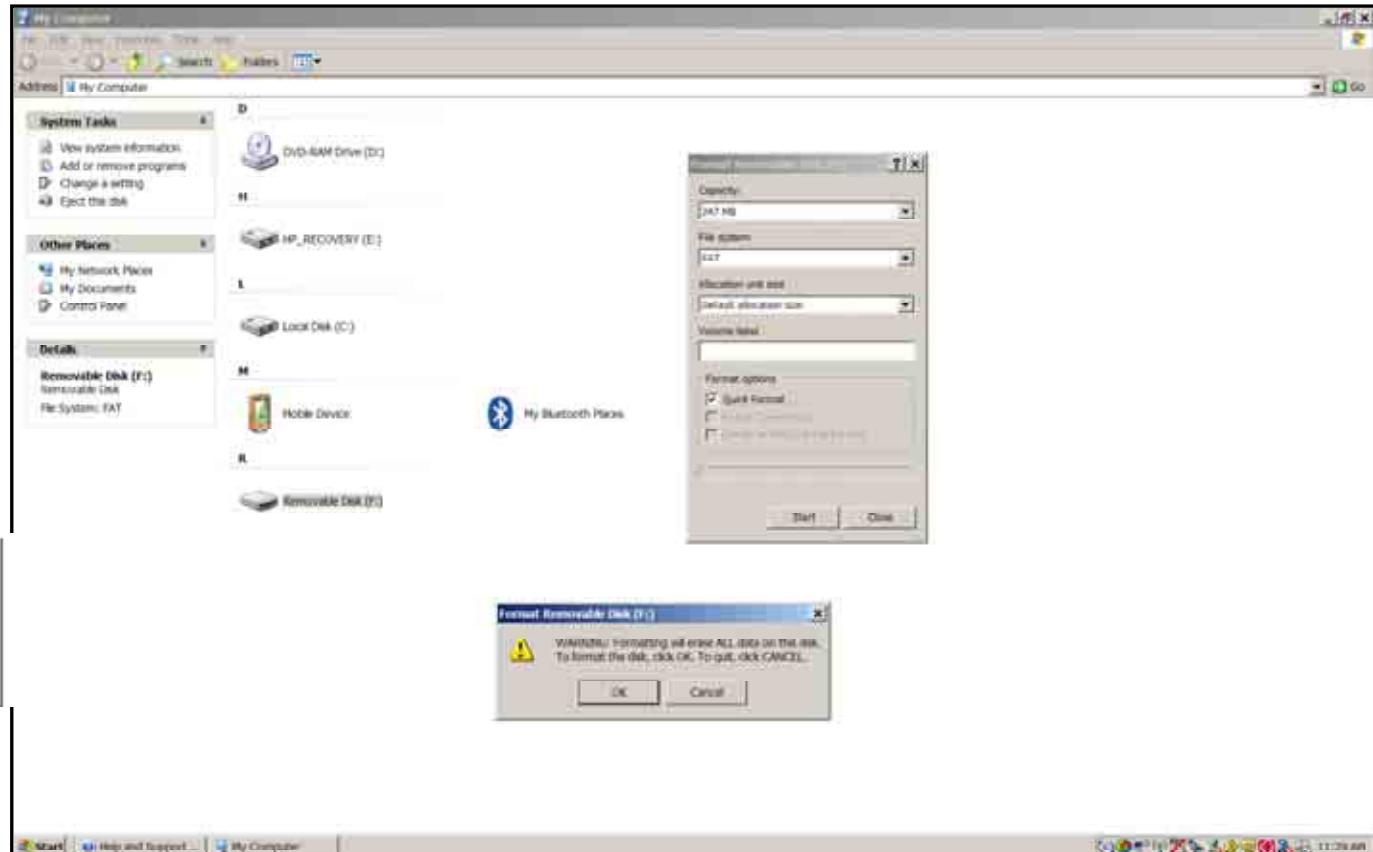
1. Then choose “FAT” under the File system selection.
2. Check Quick Format under Format Options.
3. Then click Start.



# Formatting the Zip Disk/USB Flash Drive

## CMax Chart Data Update Procedures

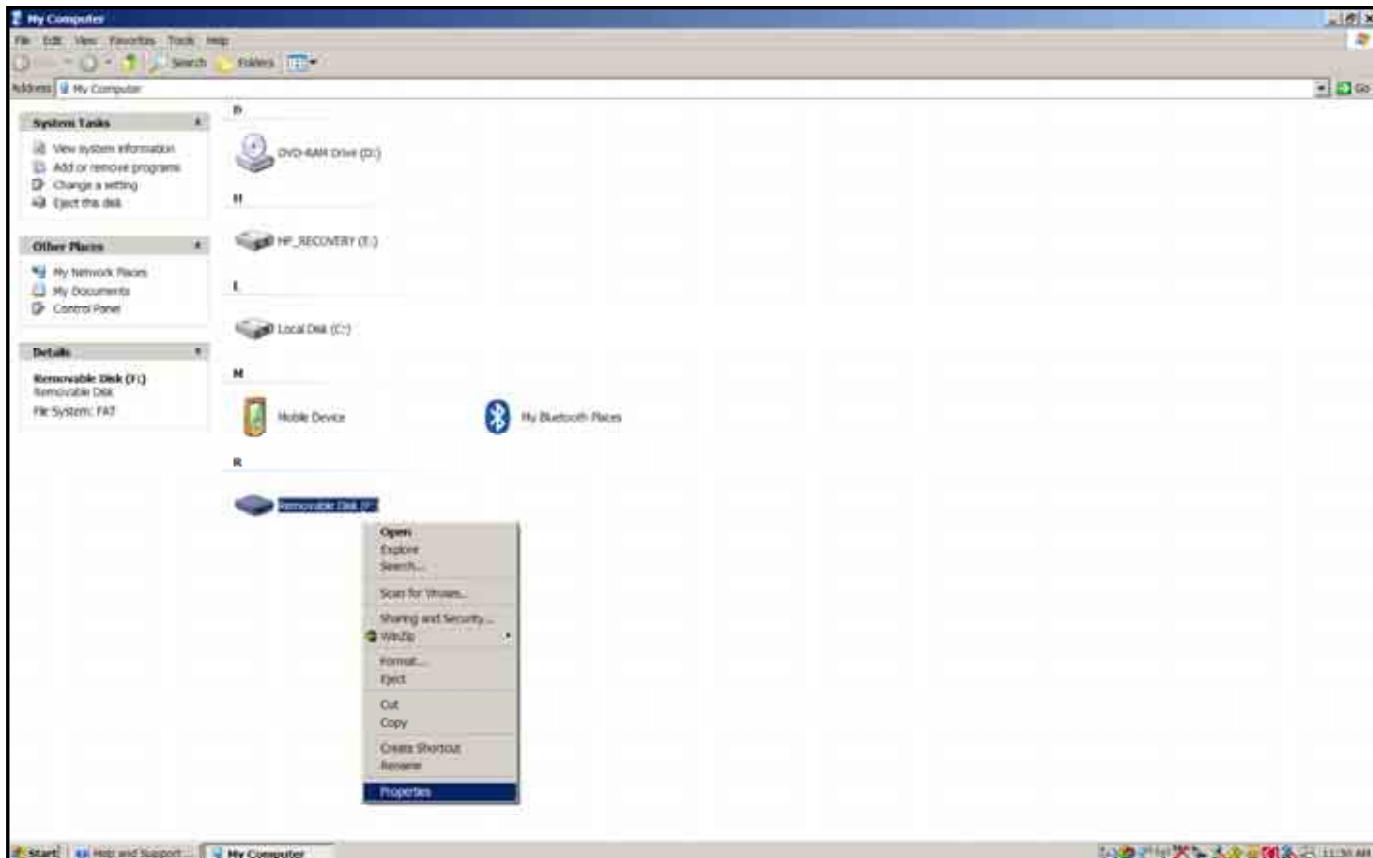
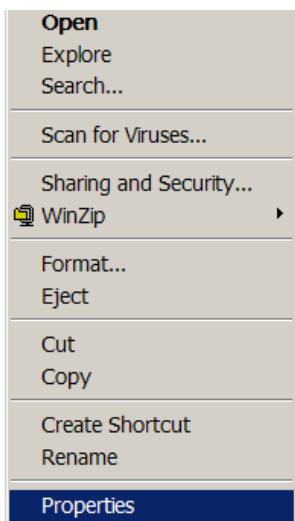
1. A Warning Box will display stating "WARNING: Formatting will erase ALL data on this disk. To format the disk, click OK, To quit, click CANCEL" You want to click "OK" to format and erase unnecessary data from the USB device.



# Formatting the Zip Disk/USB Flash Drive

## CMax Chart Data Update Procedures

1. Next you want to verify that your USB device is correctly Formatted and is cleared of all other Data.
2. Right click the Removable Disk (F:).
3. Then scroll down to Properties and then left click the Properties selection.

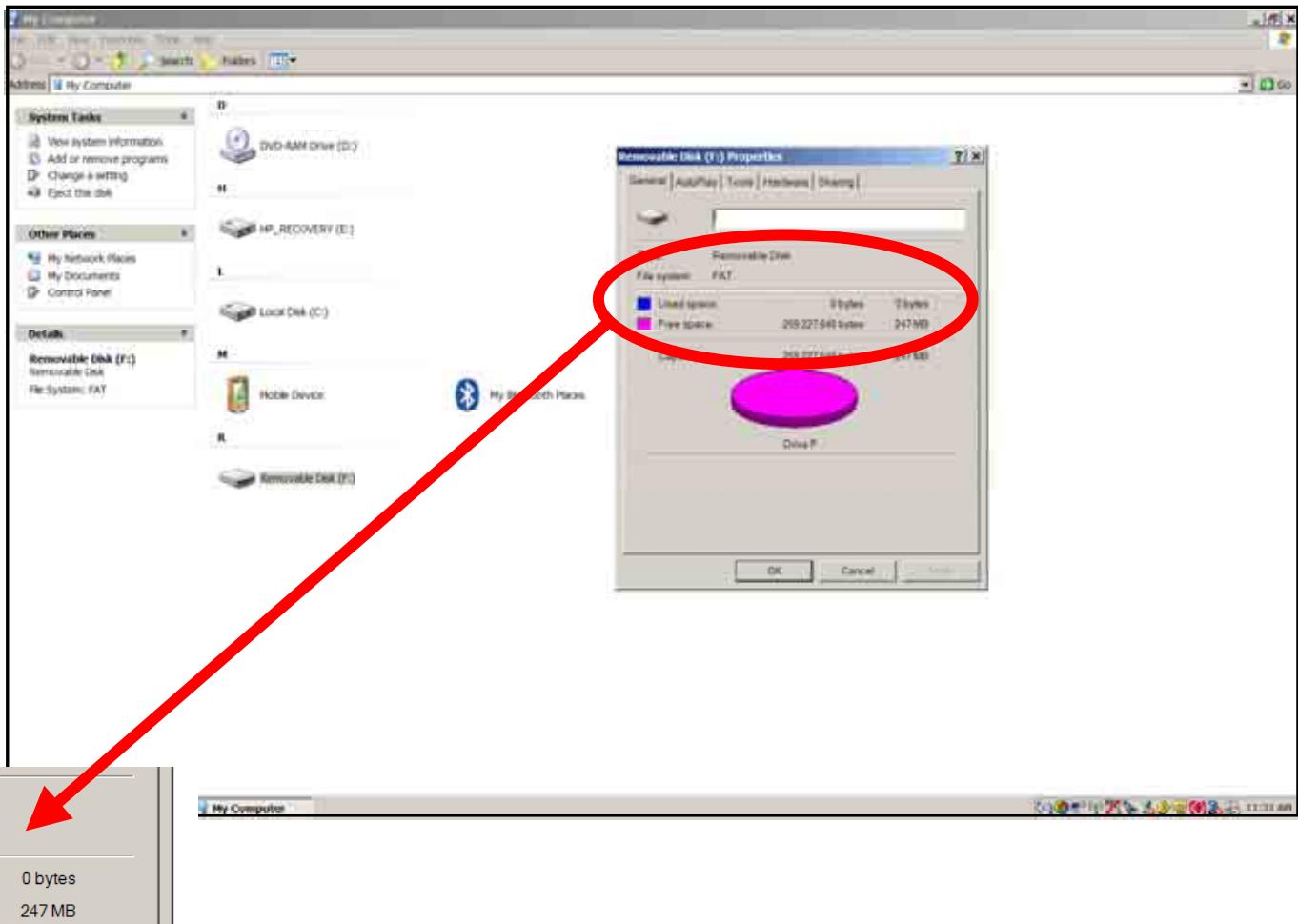


# Formatting the Zip Disk/USB Flash Drive

## CMax Chart Data Update Procedures

1. Verify under File system it shows "FAT"
2. Verify on Used space it shows 0 bytes.
3. If either File system shows other than "FAT" or under Used space it shows more than 0 bytes. Then reformat USB device again.

Note: Keep your USB Flash Memory Drive/Zip Drive connected to your PC for the next following steps



## CMax Chart Data Update Procedures

### Notes for Zip Disk users:

- Avidyne recommends using a 250MB Zip drive and disk. The 250MB disk and drive will allow you to load Jeppesen chart subscription up to and including coverage of the entire United States and Canada.
- If your Zip drive ejects the Zip disk without reading the update, the most likely reason is that the disk has been formatted as “FAT 32.”
- Your Zip Disk must be in “FAT” format. If you purchase a Zip Disk that is formatted as “FAT 32,” you will need to reformat it.
- When you reformat the disk, you MUST select the “FAT” file system as a format option. Windows XP defaults to “FAT 32”, which is not compatible with the EX500 or EX5000.
- For Iomega Zip Disk Users: Do not install the Iomega Tools disk on your PC. The Iomega tools will not allow you to use the “FAT” file system format. If you already have the Iomega tools installed, uninstall them.

# USB Flash Memory Drive Users

## CMax Chart Data Update Procedures

### Notes for USB Flash Memory users:

- Due to system constraints, you cannot download both CMax Chart Data and NavData on the same USB Flash Memory device at the same time. Therefore, Avidyne suggests that you keep one USB Flash memory drive for CMax and another for NavData (and, if your aircraft is equipped with EMax, one more USB device to load EMax data from your MFD to the PC).
- Many USB Flash Memory Drives are now delivered with U3 Launchpad installed. This application, from U3, prevents any Jeppesen data ( CMax Charts) from loading. If your USB Flash Memory Drive has U3 Launchpad, you must uninstall it. For information about uninstalling U3 Launchpad, see [www.u3.com/support/](http://www.u3.com/support/) or [www.u3.com/uninstall/](http://www.u3.com/uninstall/).
- Avidyne recommends using a USB 2.0 Flash Memory Drive with a size of 128MB, 256MB, or 512MB for Nav Data updates and a USB 2.0 Flash Memory Drive with a size of 256MB or 512MB for CMax Chart Data. Avidyne recommends not using a 1GB USB Memory Drive or larger for Nav Data updates or CMax. Please visit [www.avidyne.com/products/  
USB%20flash%20support.pdf](http://www.avidyne.com/products/USB%20flash%20support.pdf) for a complete list of Avidyne tested USB 2.0 Flash Memory devices.

# Updating CMax Chart Data by JSUM

## CMax Chart Data Update Procedures

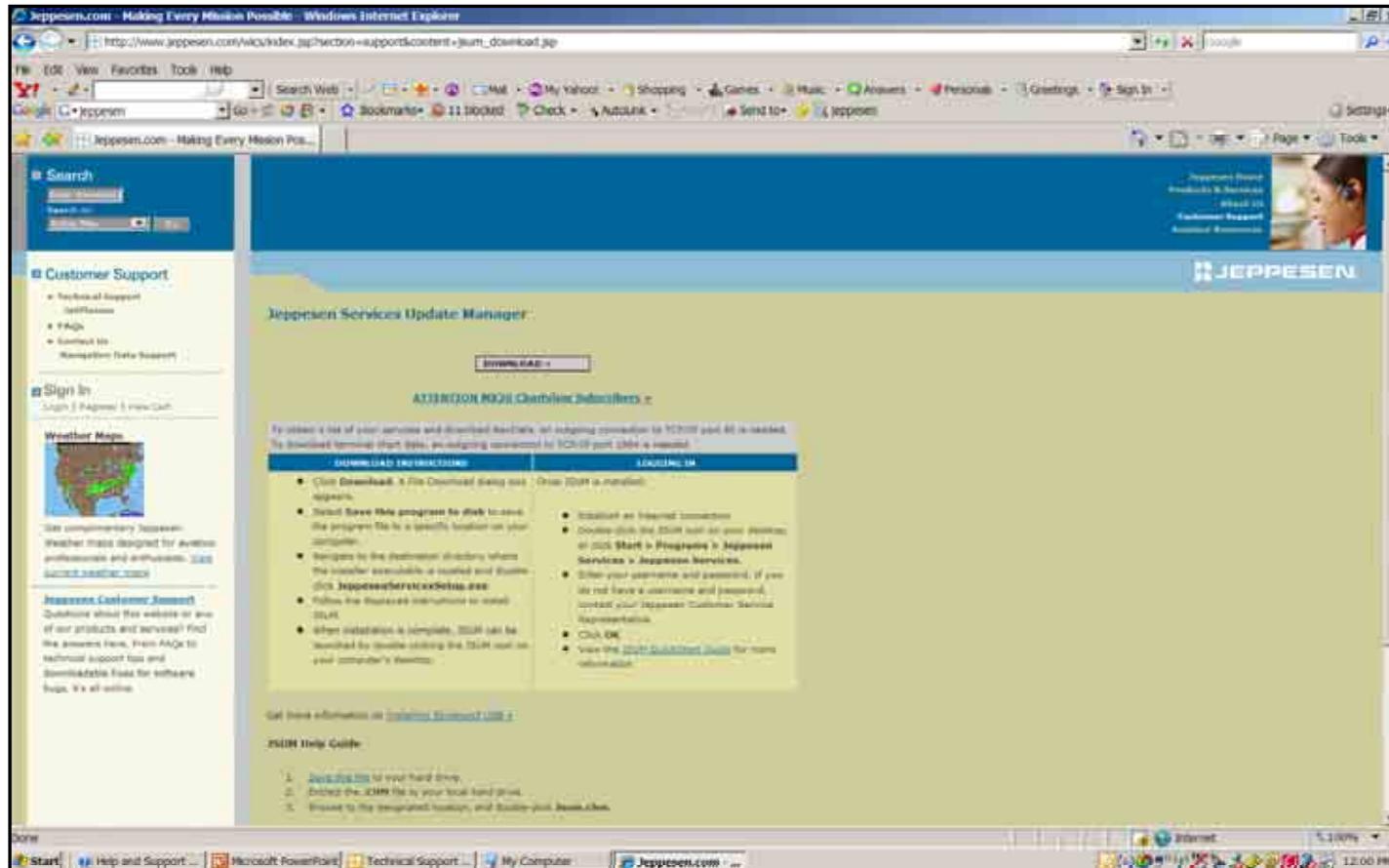
1. After you have ordered your Jeppesen Electronic Chart Data updates.
2. Then visit Jeppesen website to download Jeppesen's latest version of Jeppesen Services Update Manager (JSUM) application.

The screenshot shows the Jeppesen website homepage. At the top left is a search bar with fields for 'Enter Keyword(s)', 'Search In:', and dropdown options for 'Entire Site' or 'Flight Deck'. Below the search is a 'Sign In' button and links for 'Login' and 'Register'. A 'Weather Maps' section features a map of the United States with weather data overlays. To the right, a large banner headline reads 'Making Every Mission Possible' with a subtext about Jeppesen's 70-year history in aviation information management. Below the banner are six thumbnail images representing different aviation sectors: Business Aviation, Commercial Aviation, General Aviation, Government and Military Aviation, Marine, and Rail and Logistics. To the right of these thumbnails are several sidebar boxes: 'Alerts' (listing NavData & Chart Notices, NOTAMS and Alerts, Effective 07 JUN 07 Charts, and MQ Vista Support Notice); 'Software Updates' (listing JeppView/FlightDeck version 3.2 Change Guide and Tutorial, FlightStar Tutorial, User's Guide and Software Patches); 'News and Current Events' (listing EBAE 2007—Simplified Pricing for Int'l Trip Planning, Jeppesen to Standardize Runway Incursion Hot Spot Decisions, Jeppesen to Deliver EFB Solutions to ANA, and View All Press Releases); and a 'Featured Product' box for SIMCharts 4.0. The top right corner of the page features a small graphic of two people flying.

# Updating CMax Chart Data by JSUM

## CMax Chart Data Update Procedures

1. Remember to always download the latest version of the Jeppesen Services Update Manager (JSUM) on to your PC.



# Updating CMax Chart Data by JSUM

## CMax Chart Data Update Procedures

1. You should have a Jeppesen Services icon located on your PC desktop to be able to log into JSUM.



# Updating CMax Chart Data by JSUM

## CMax Chart Data Update Procedures

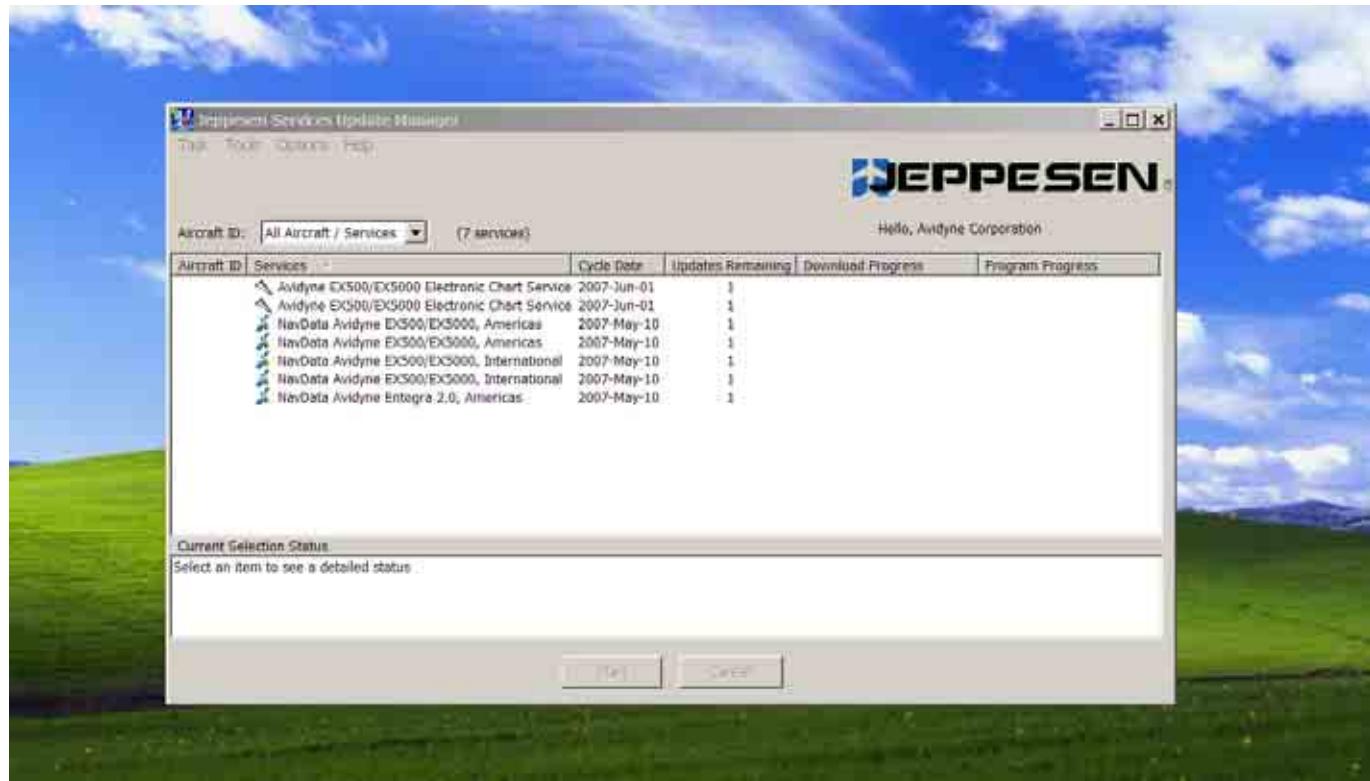
1. Next located your JSUM Username and Password you have written down and log into JSUM.



# Updating CMax Chart Data by JSUM

## CMax Chart Data Update Procedures

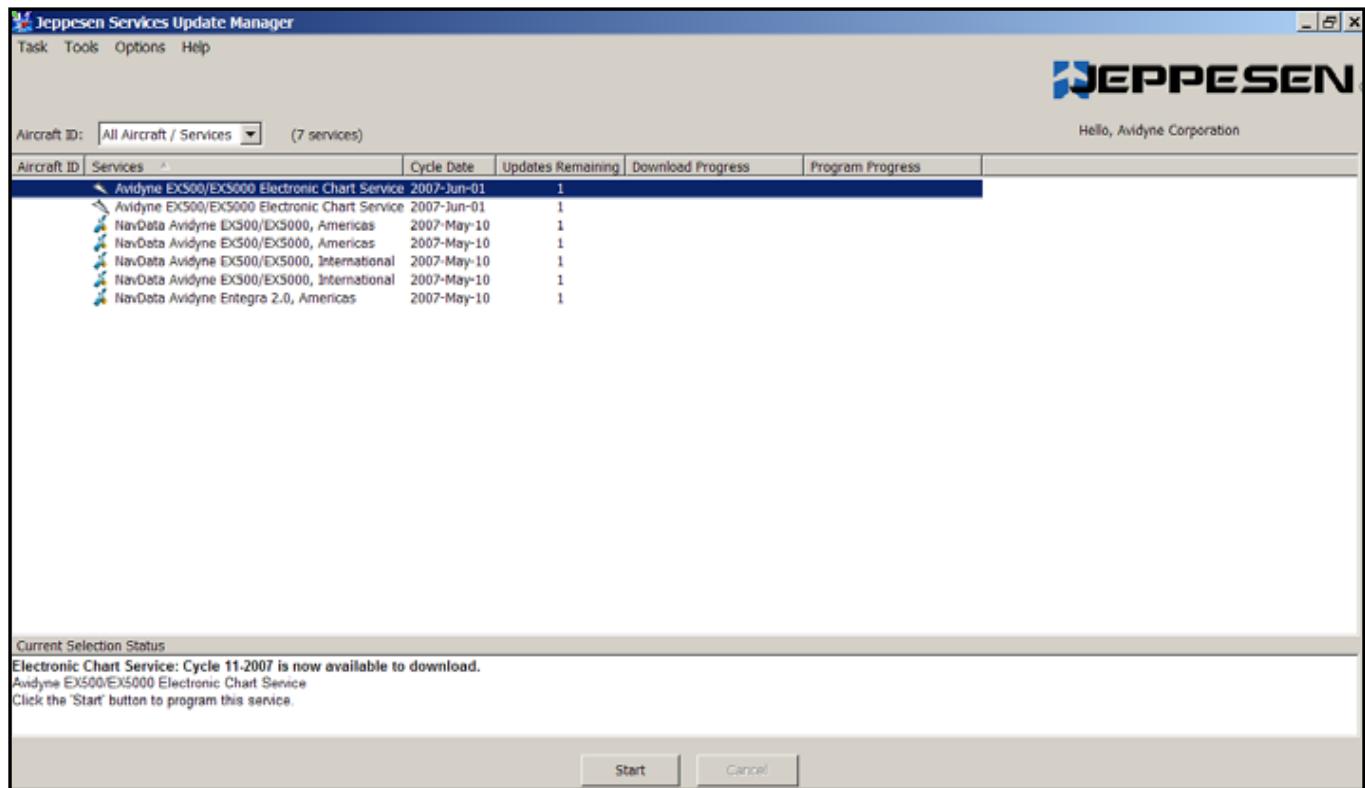
1. All your current Jeppesen subscriptions for your Avidyne MFDs will be shown.



# Updating CMax Chart Data by JSUM

## CMax Chart Data Update Procedures

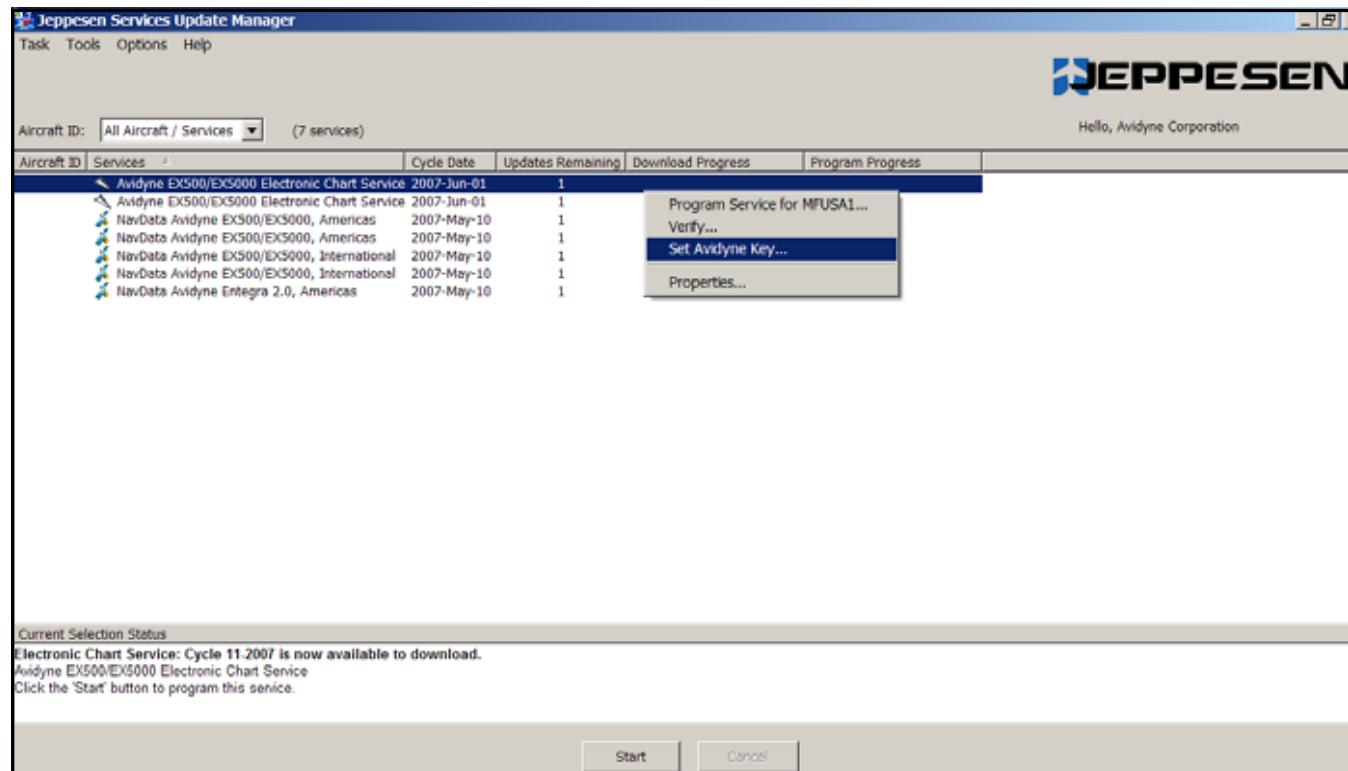
1. Select the Avidyne EX500/EX5000 Electronic Chart Service to download to your USB Flash Memory Drive/Zip Drive already connected to your PC.



# Updating CMax Chart Data by JSUM

## CMax Chart Data Update Procedures

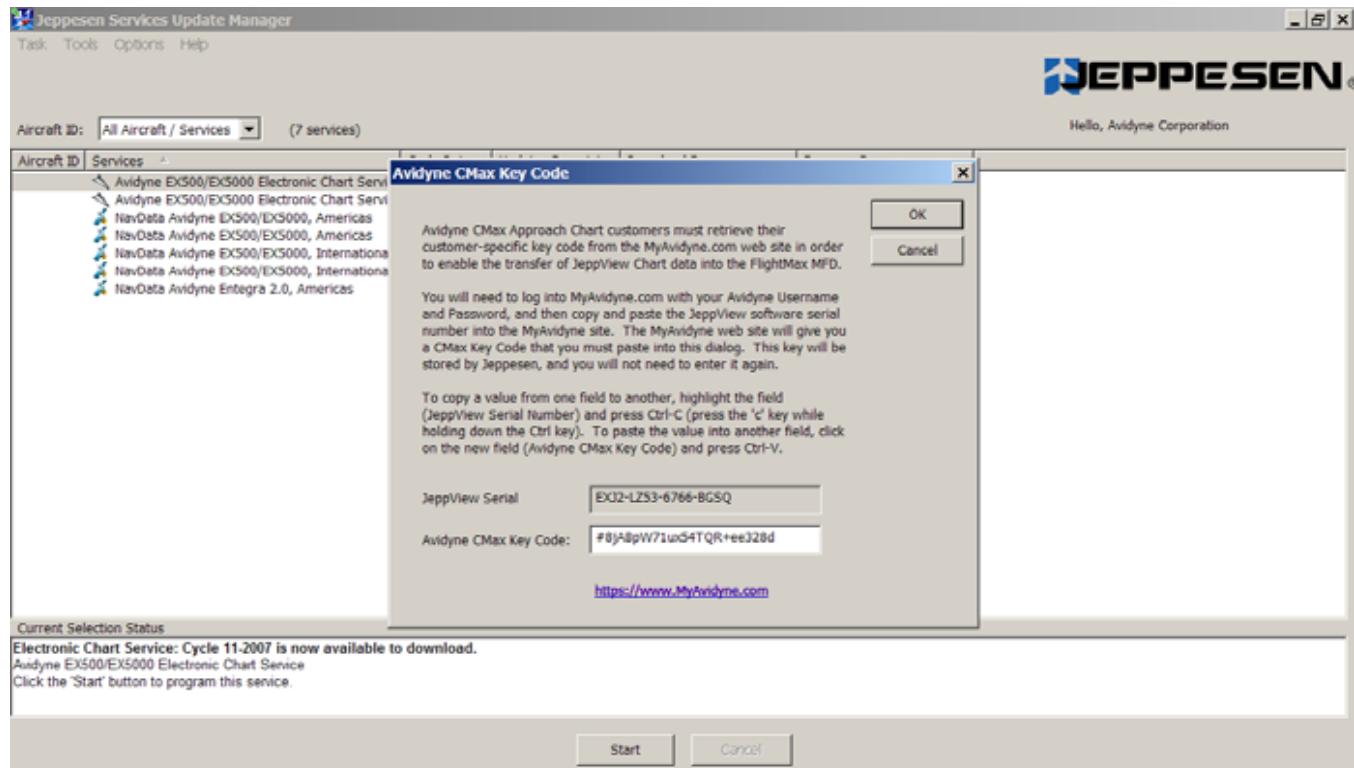
1. To enter your Avidyne CMax Key Code into JSUM, highlight your Avidyne EX500/EX5000 Electronic Chart Service subscription and right click and select Set Avidyne Key.



# Updating CMax Chart Data by JSUM

## CMax Chart Data Update Procedures

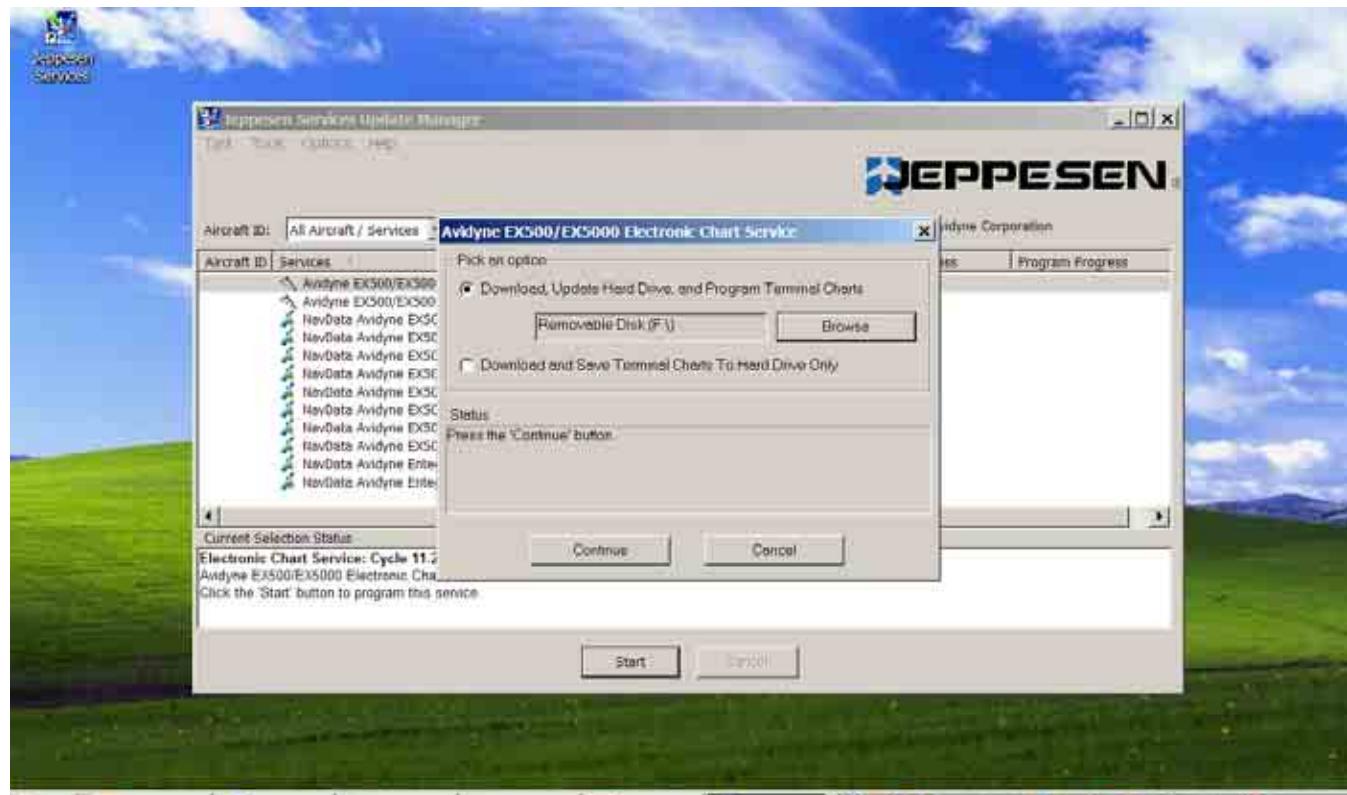
1. Verify your Jeppesen Software Serial Number is correct.
2. Then right click the Avidyne CMax Key Code box and paste your Avidyne CMax Key Code that you copied from the [www.MyAvidyne.com](http://www.MyAvidyne.com) website.
3. Then click OK.



# Updating CMax Chart Data by JSUM

## CMax Chart Data Update Procedures

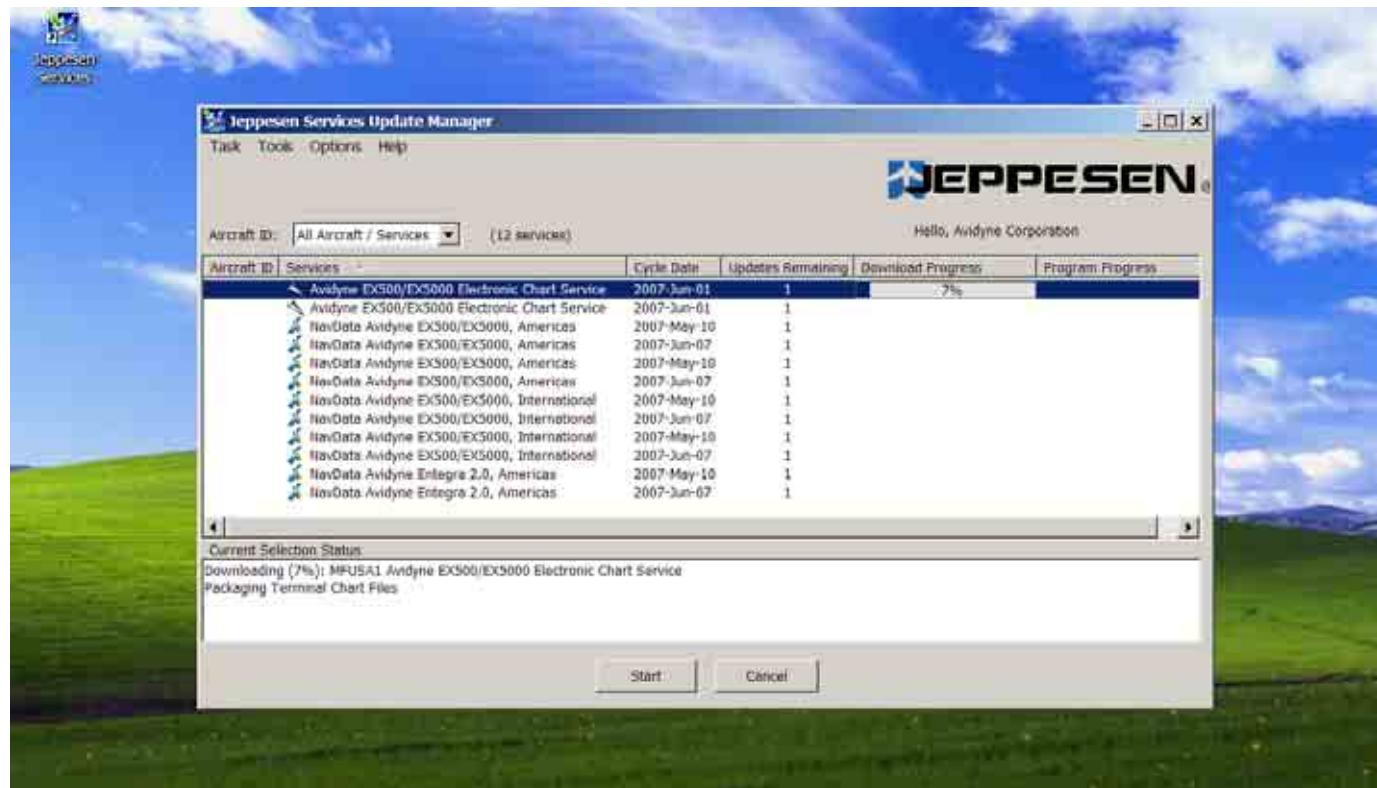
1. Select the Download and Program Now option.
2. Next Browse for your “Removable Disk” drive where your USB Flash Memory Drive/Zip Drive is connected too.
3. Then click Continue.
4. Then click Start.



# Updating CMax Chart Data by JSUM

## CMax Chart Data Update Procedures

1. The Avidyne EX500/EX5000 Electronic Chart Service will start to download unto your USB Flash Memory Drive/Zip Drive.



# Updating CMax Chart Data by JSUM

## CMax Chart Data Update Procedures

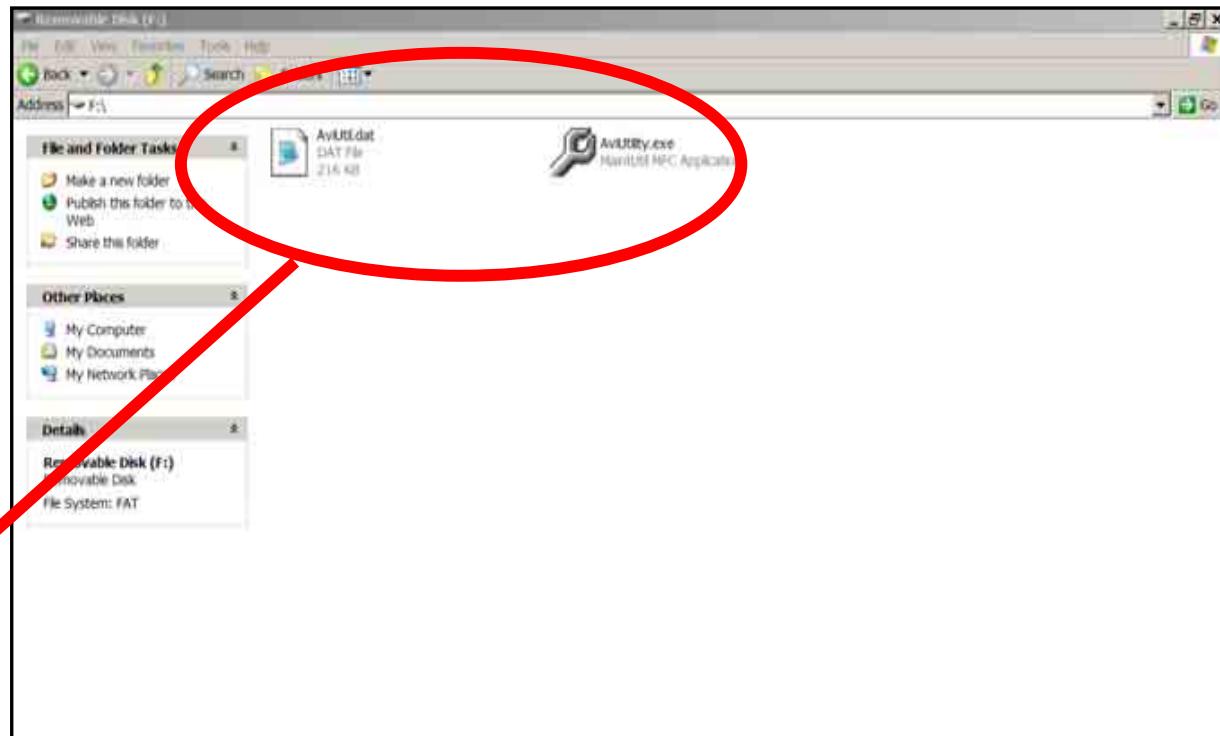
- Once the Avidyne EX500/EX5000 Electronic Chart Service Updates have been downloaded successfully into your USB Flash Memory Drive/Zip Drive you will receive the following message "Programming Completed". Click OK



# Updating CMax Chart Data by JSUM

## CMax Chart Data Update Procedures

1. After downloading the Jeppesen Electronic Chart Data update to your USB Flash Memory Drive/Zip Drive. Then go to MyComputer icon on your Desktop and right click your Removable Disk drive where your USB device is connected and right click to "Properties".



2. Verify you see these two files on your Removable Disk drive AviUtil.dat and AviUtility.exe. If not download again.

3. Then disconnect your USB Flash Memory Drive/Zip Drive from your PC and take it out to your Aircraft to upload the CMax Chart Data updates to your Avidyne MFD.

# Updating CMax Chart Data by Jeppesen CDs

## CMax Chart Data Update Procedures

1. Once you've placed your CD order with Jeppesen for the Electronic Chart Service updates for your Avidyne MFDs

The screenshot shows the Jeppesen website's 'Products & Services' section. The main heading is 'JeppView for MFDs: JeppView Electronic Chart Data for Multi-Function Displays'. Below this, it says 'JeppView® for Multi-Function Displays is the latest innovation from Jeppesen. By uploading JeppView charts directly to the MFD, the amount of paper required in the aircraft is greatly reduced. Want better situational awareness? Check out the aircraft position spotter on the geo-referenced Jeppesen charts. Managing and accessing flight critical information has never been easier.' It also mentions support for Avidyne and Garmin MFDs, with a phone number 1-800-621-5377.

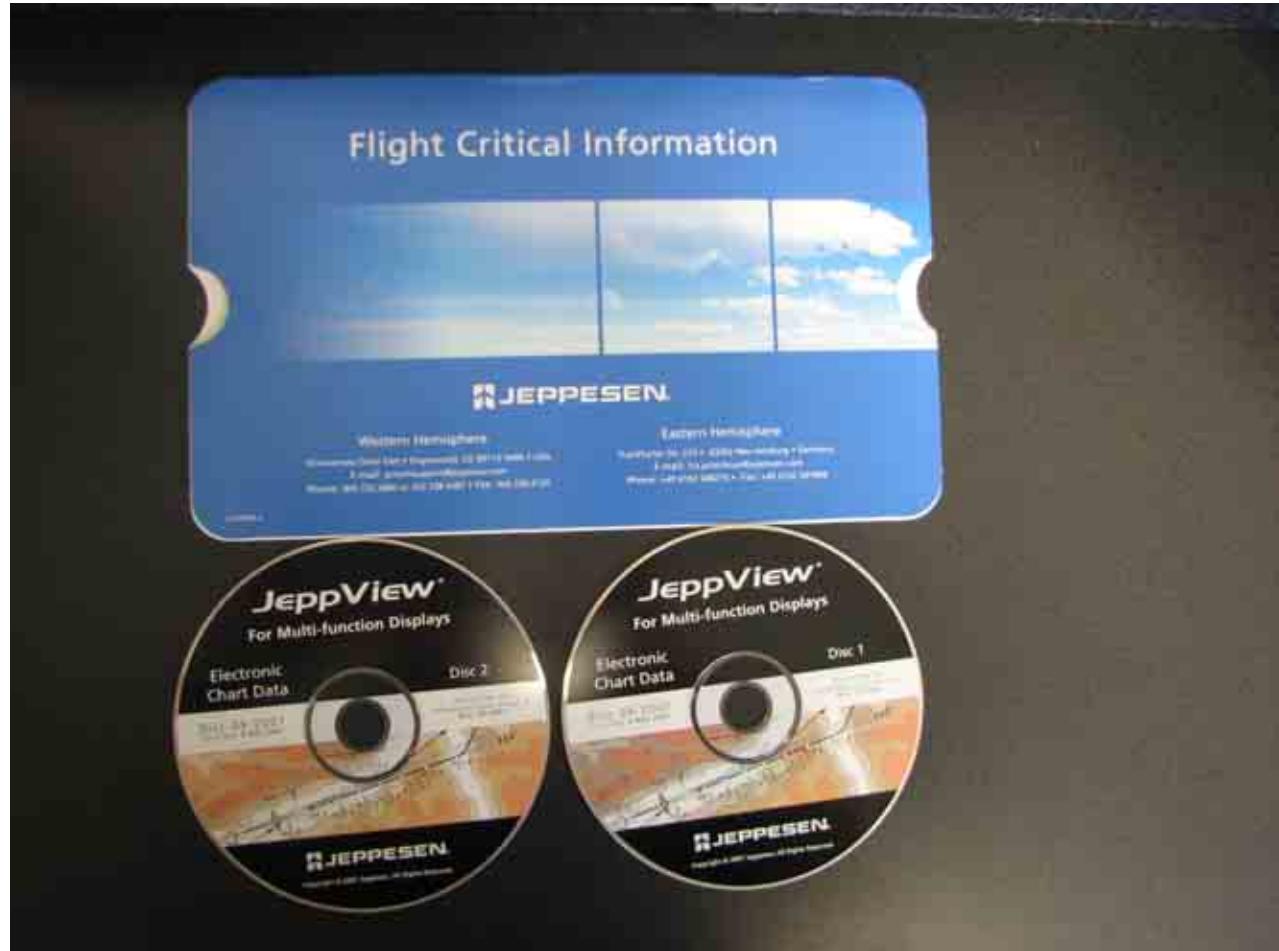
The page lists several services:

- What's Included:**
  - JeppView viewer application (FlightDeck not included) allows you to view and print Jeppesen charts (approach, arrival, departure, airport and class B airspace) from a ground-based PC for flight planning purposes.
  - The Jeppesen Services Update Manager Application allows you to export Jeppesen charts (approach, arrival, departure, airport and class B airspace) to your on board multi-function display for inflight use.
  - JeppView electronic chart data allows you to update your Jeppesen charts (approach, arrival, departure, airport and class B airspace) every 14 days.
  - JeppView electronic text pages allows you to update your Jeppesen text pages. Updates are issued only as required.
  - Paper Enroute Charts and Area Charts are included with your JeppView for Multi-Function Displays service. Updates are issued only as required.

# Updating CMax Chart Data by Jeppesen CDs

## CMax Chart Data Update Procedures

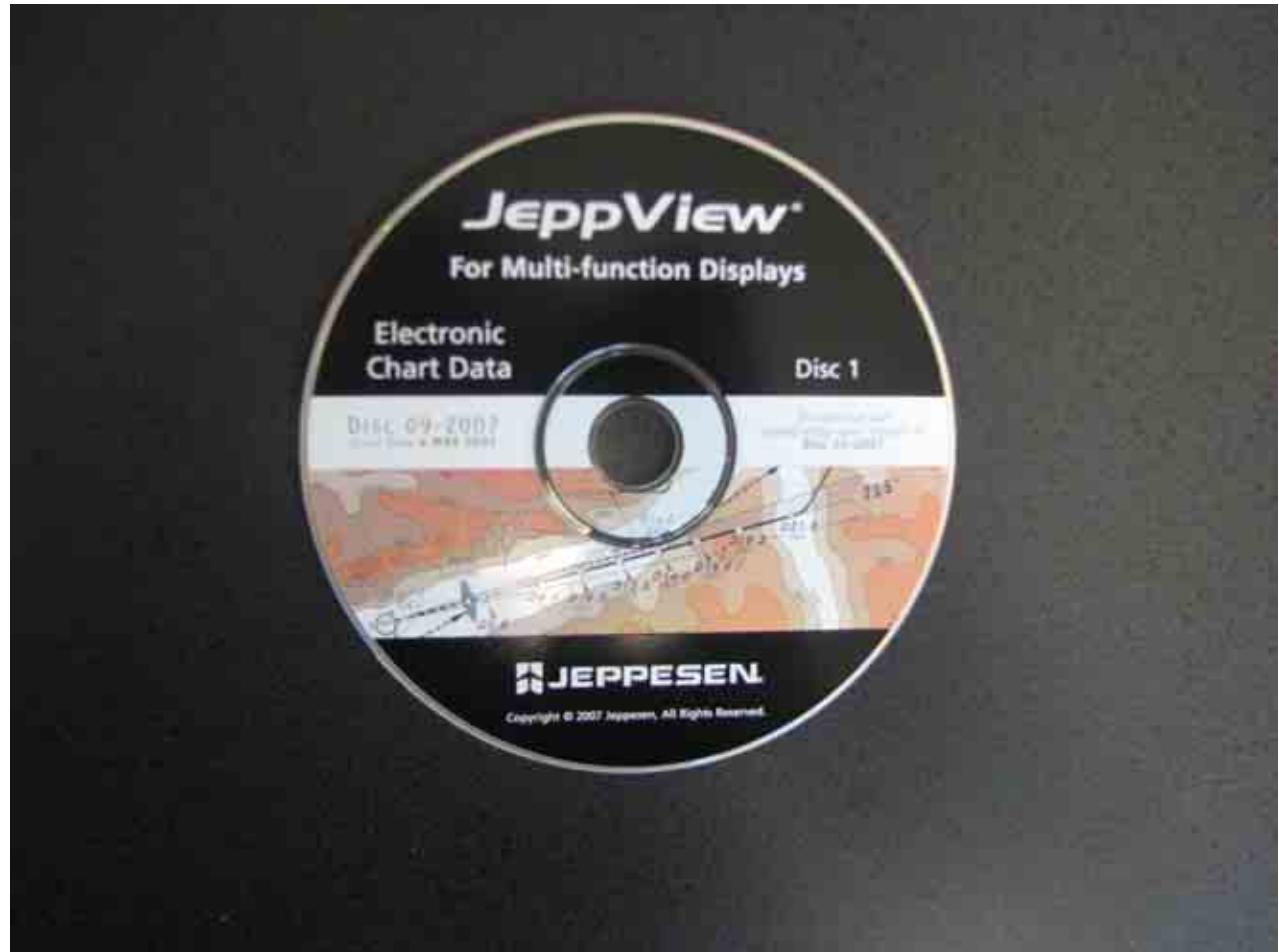
1. You will receive your Jeppesen Electronic Chart Data updates CDs by mail.



# Updating CMax Chart Data by Jeppesen CDs

## CMax Chart Data Update Procedures

1. First, verify that your “FAT” formatted USB Flash Memory Drive/Zip Drive is still connected to your PC.
  
2. Next, take your Jeppesen Electronic Chart Data Disc 1 CD and insert it into your PC.



# Updating CMax Chart Data by Jeppesen CDs

## CMax Chart Data Update Procedures

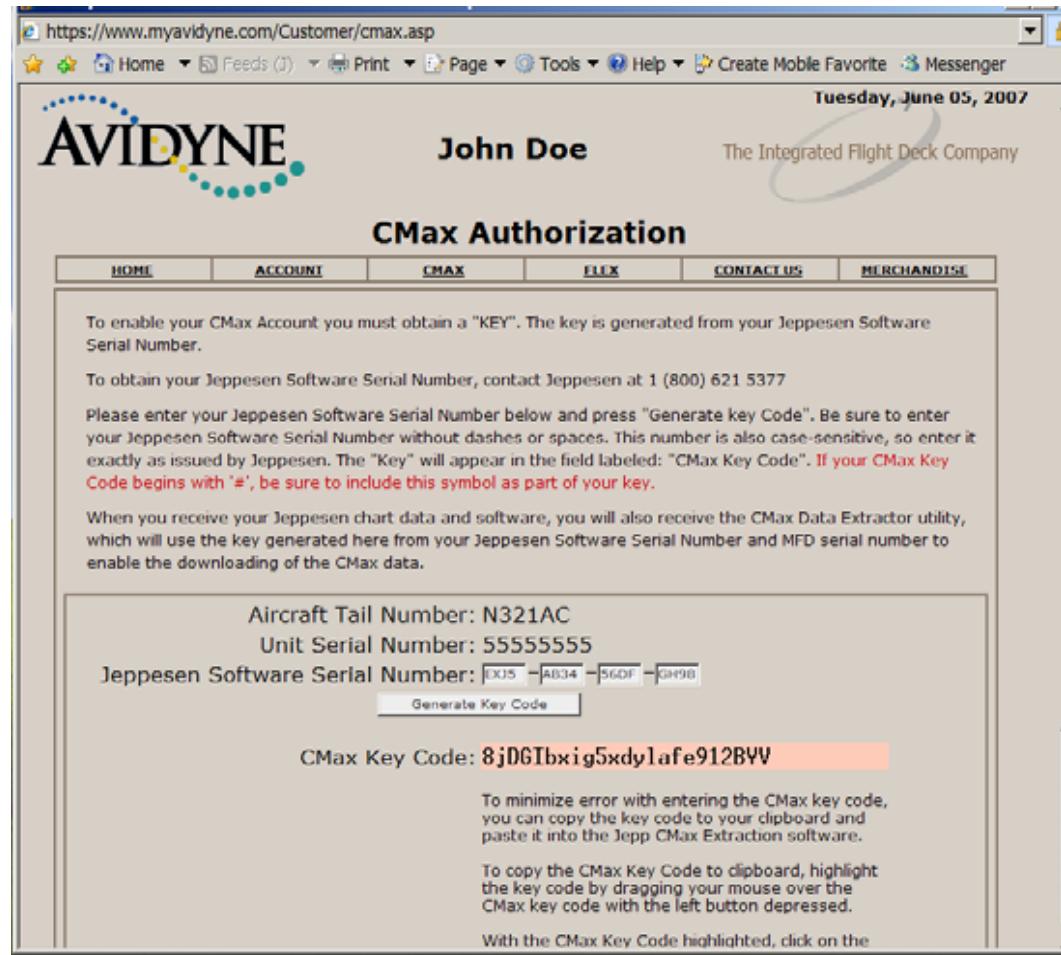
1. Next go to [www.Myavidyne.com](http://www.Myavidyne.com)
2. Then to Return Account Users section and log in using your saved User ID and Password and Click Login.
3. Then select the CMax menu.



# Updating CMax Chart Data by Jeppesen CDs

## CMax Chart Data Update Procedures

- 1. To save your CMax Key Code you can use the Copy to Clipboard function to copy and paste this CMax Key Code to either the Jeppesen Services Update Manager (JSUM) application or the Avidyne CMax Data Extractor application.**
  
- 2. To Copy and Paste this CMax Key Code just highlight the key code by dragging you mouse over the CMax Key Code with the Left button depressed on the mouse.**
  
- 3. With the CMax Key Code highlighted, click on the Copy to Clipboard button.**



# Updating CMax Chart Data by Jeppesen CDs

## CMax Chart Data Update Procedures

### Avidyne CMax Data Extractor

1. To transfer your Jeppesen Electronic Charts Data updates on CDs to your USB Flash Memory Drive/Zip Drive you need to run the Avidyne CMax Data Extractor application.
2. The Avidyne CMax Data Extractor can self start when installing the Jeppesen Electronic Chart Data Disk 1 CD.
3. Also, you can open the Avidyne CMax Data Extractor by going to [www.Avidyne.com](http://www.Avidyne.com) and then to Product/Publication Library menu:  
[www.avidyne.co/techpubs.shtm](http://www.avidyne.co/techpubs.shtm)



# Updating CMax Chart Data by Jeppesen CDs

## CMax Chart Data Update Procedures

### Avidyne CMax Data Extractor

1. **Follow these set of instructions to download the CMax Data Extractor off Avidyne's website [www.Avidyne.com](http://www.Avidyne.com) which is located in the Product/Publication Library menu: [www.avidyne.co/techpubs.shtm](http://www.avidyne.co/techpubs.shtm)**

#### Downloading CMax Data Extractor 1.2.0

##### Description

The CMax Data Extractor will automatically be updated by your JeppView Data Update CD-ROM. However, there may be a transition period between the availability of Release 6 MFD software and the Jeppesen CD update. For this case and also for users who may have extra or alternate installations of the CMax Data Extractor, follow these instructions.

To determine the version of the CMax Data Extractor currently installed on your PC, follow the normal procedures to start the CMax Data Extractor. When the CMax Data Extractor window is open, observe the version number at the top of the window. If it is not 1.2.0, you must install the new version for compatibility with MFD Release 6.

##### Downloading and installing the CMax Data Extractor

1. Find the installation location of your CMax Data Extractor. For regular JeppView3 installations, this is typically in C:\jeppesen\JeppView3\Extractor.
2. Delete all files in this folder EXCEPT extractor.cfg. This file stores your subscription number so you do not need to re-enter it.
3. Use an internet browser to visit <http://www.avidyne.com/techpubs.shtm>
4. Copy or download the self-extracting zipped file "CMax Data Extractor 570-00019-000 Rev 03.exe" to the folder referenced above.
5. Double-click on "CMax Data Extractor 570-00019-000 Rev 03.exe" to start the installation process. Click the "Unzip" button to extract the files.
6. The installation utility should report "7 file(s) unzipped successfully". Click "OK" to proceed. Click "Close" to close the installer utility.
7. Double-click on "AviJeppDataExtractor.exe" to start the CMax Data Extractor. Verify that the version number at the top of the window is 1.2.0.
8. Once the new version of the CMax Data Extractor is installed, you may delete the installation file "CMax Data Extractor 570-00019-000 Rev 03.exe" that you downloaded in Step 4.

# Updating CMax Chart Data by Jeppesen CDs

## CMax Chart Data Update Procedures

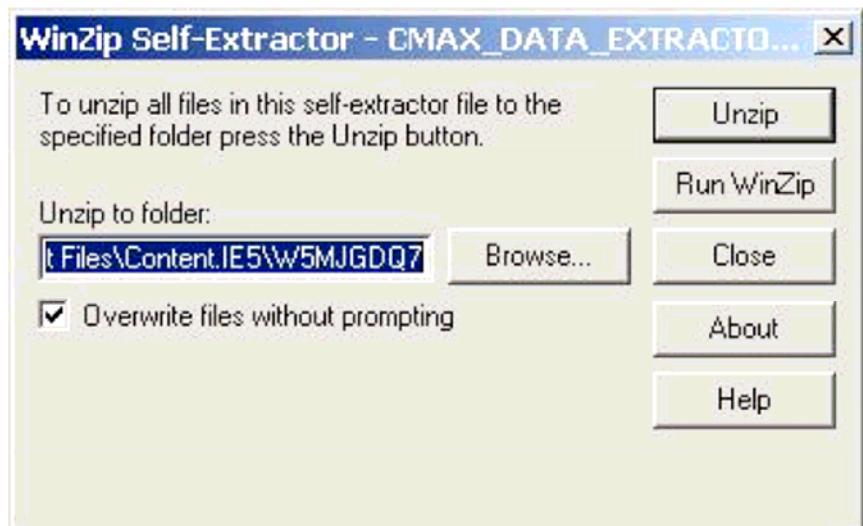
### Avidyne CMax Data Extractor

- To download and install the Data Extractor

- 1) On your PC, find the directory that contains the CMax Data Extractor. For regular JeppView3 installations, this is typically C:\jeppesen\JeppView3\Extractor.
- 2) Delete all of the files in this folder **except** extractor.cfg. This configuration file stores your subscription number so you do not need to re-enter it.
- 3) From your PC, open an internet browser window and go to [www.avidyne.com/techpubs.shtml](http://www.avidyne.com/techpubs.shtml)
- 4) Under CMax Data Extractor Utility, click *Download*. The WinZip Self Extractor begins the download and the WinZip Self Extractor window displays:
- 5) Click *Browse* and browse to the original file location (C:\jeppesen\JeppView3\Extractor) or to another location that you select, and click *Unzip*.

**Note:** If you install the CMax Data Extractor to a different location, be sure to copy the extractor.cfg file to your new location.

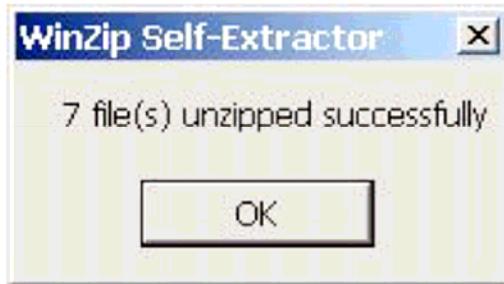
- 6) The WinZip Self Extractor will run and the following window should display:



# Updating CMax Chart Data by Jeppesen CDs

## CMax Chart Data Update Procedures

### Avidyne CMax Data Extractor



- 7) Click *OK* to close this window and then click *Close* to close the WinZip Self Extractor.
- 8) Open a Windows explorer window and browse to the location where you installed the new files. Double-click on *AviJeppDataExtractor.exe* (or *AviJeppDataExtractor*) to start the CMax Data Extractor. Verify that the version number at the top of the window is 1.2.0.
- 9) At this point, you may want to create a desktop shortcut to the CMax Data Extractor utility, as described in the following section.

# Updating CMax Chart Data by Jeppesen CDs

## CMax Chart Data Update Procedures

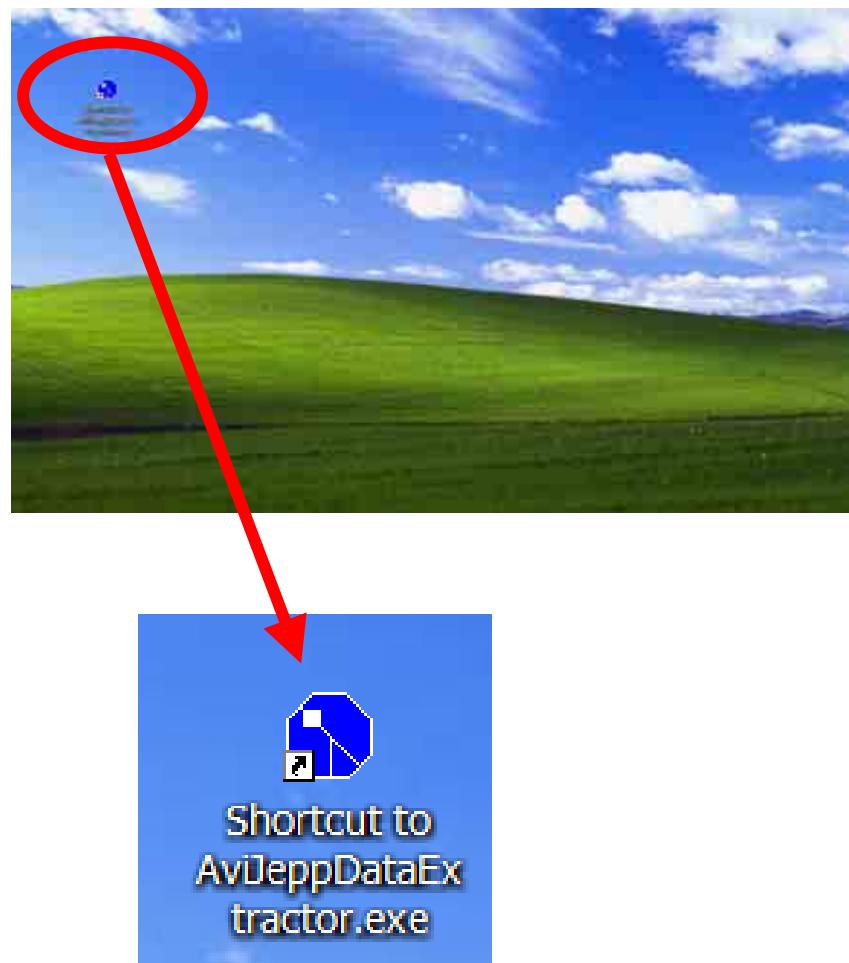
### Avidyne CMax Data Extractor

#### Creating a Desktop Shortcut

To make the CMax Data Extractor easy to find, Avidyne suggests that you create a desktop shortcut.

To do so:

- 1) From an Explorer window, browse to the location where you extracted the CMax Data Extractor files.
- 2) Right-click on AviJeppDataExtractor.exe (or AviJeppDataExtractor).
- 3) From the right-click menu, select *Create Shortcut*.
- 4) A file called ***Shortcut to AviJeppDataExtractor.exe*** is created in the same directory.
- 5) Move the ***Shortcut to AviJeppDataExtractor.exe*** file from the directory to your desktop. You can now double-click on the shortcut to start the CMax Data Extractor.

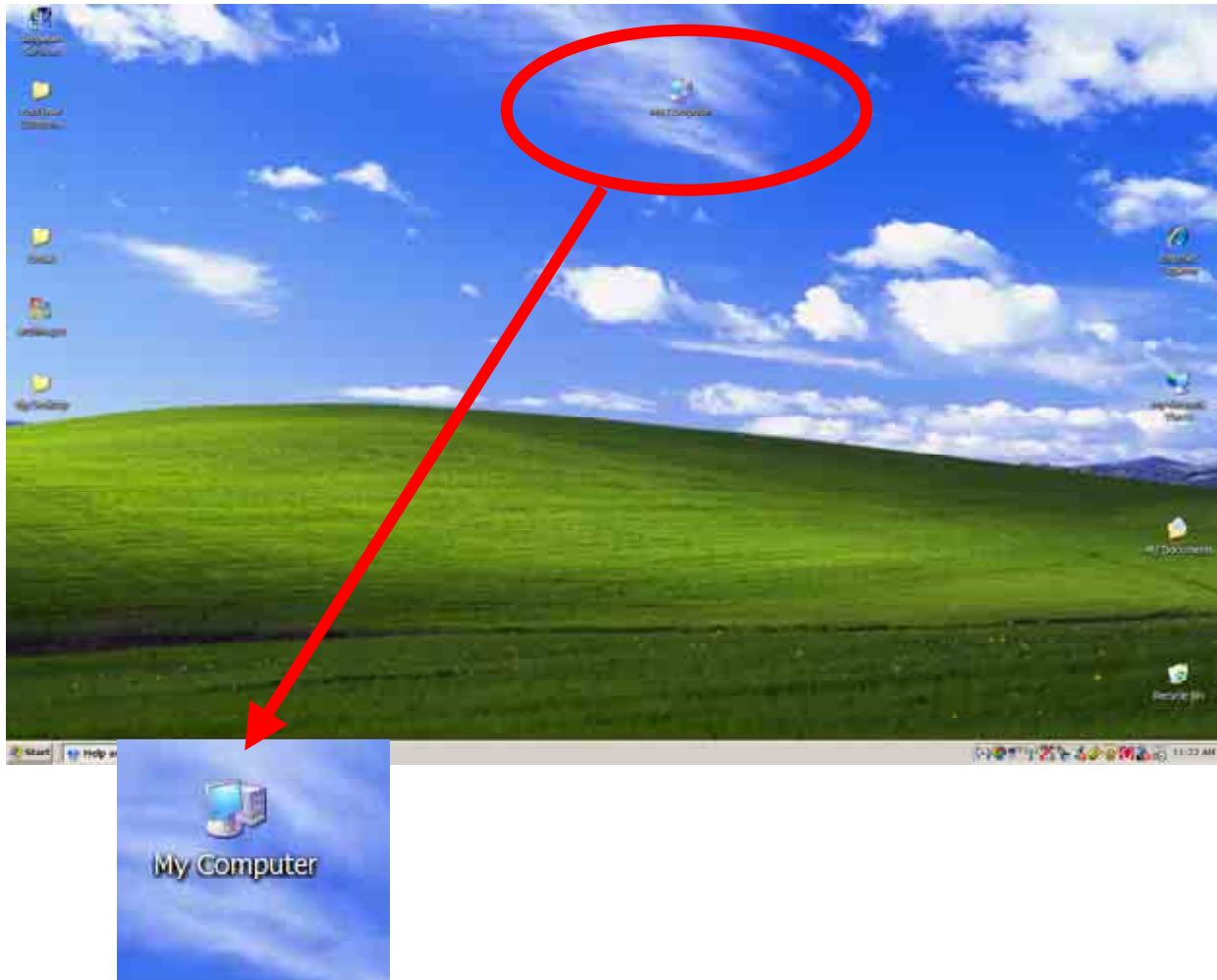


# Updating CMax Chart Data by Jeppesen CDs

## CMax Chart Data Update Procedures

### Avidyne CMax Data Extractor

1. You can also open the Avidyne CMax Data Extractor by first opening your MyComputer icon on your PC Desktop.

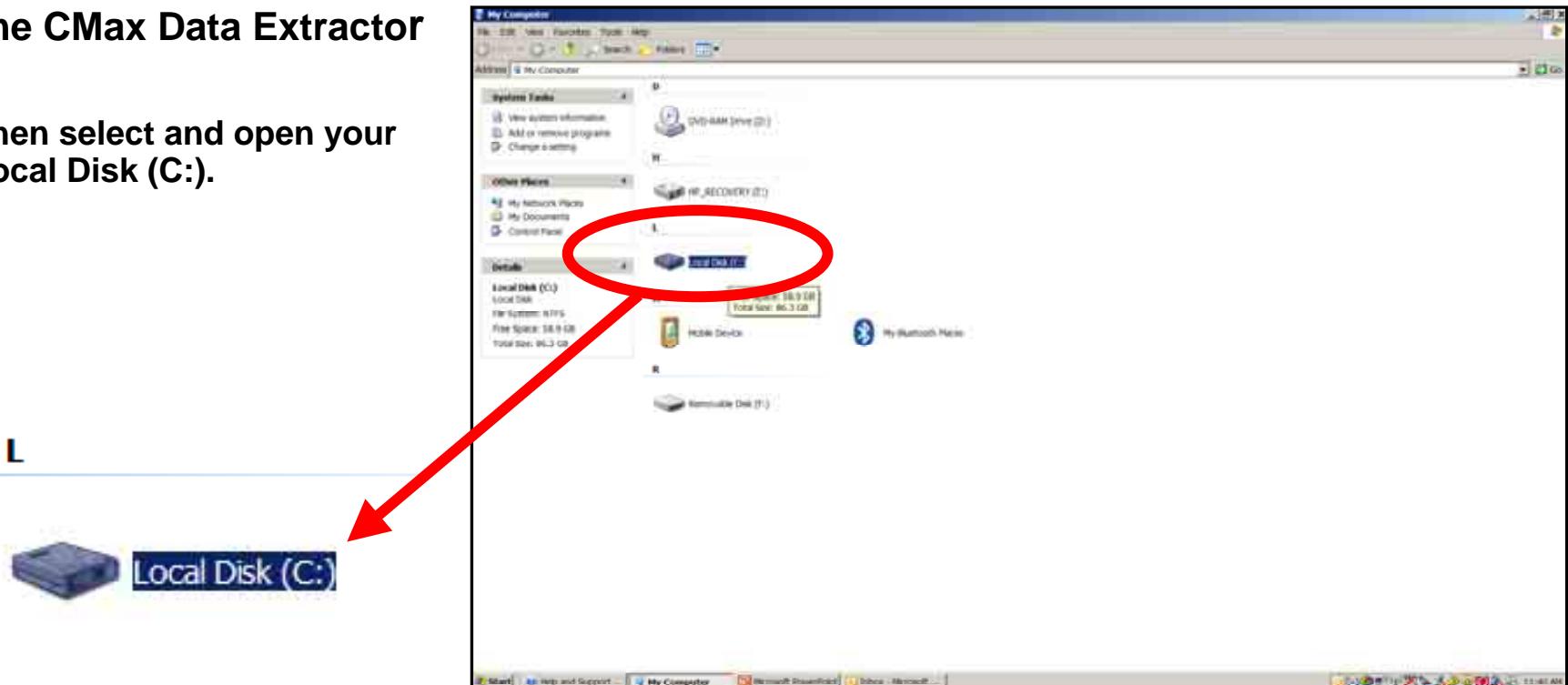


# Updating CMax Chart Data by Jeppesen CDs

## CMax Chart Data Update Procedures

### Avidyne CMax Data Extractor

1. Then select and open your Local Disk (C:).

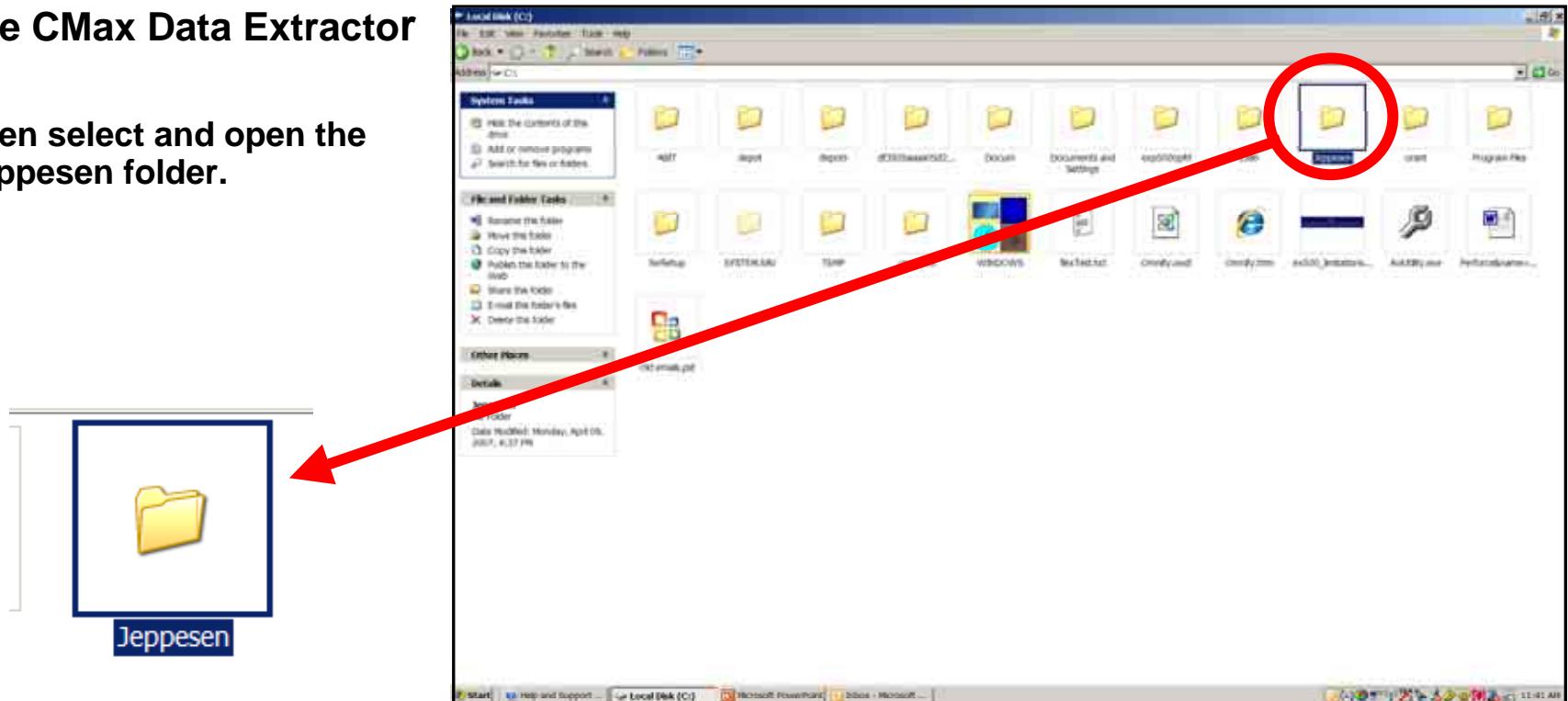


# Updating CMax Chart Data by Jeppesen CDs

## CMax Chart Data Update Procedures

### Avidyne CMax Data Extractor

1. Then select and open the Jeppesen folder.

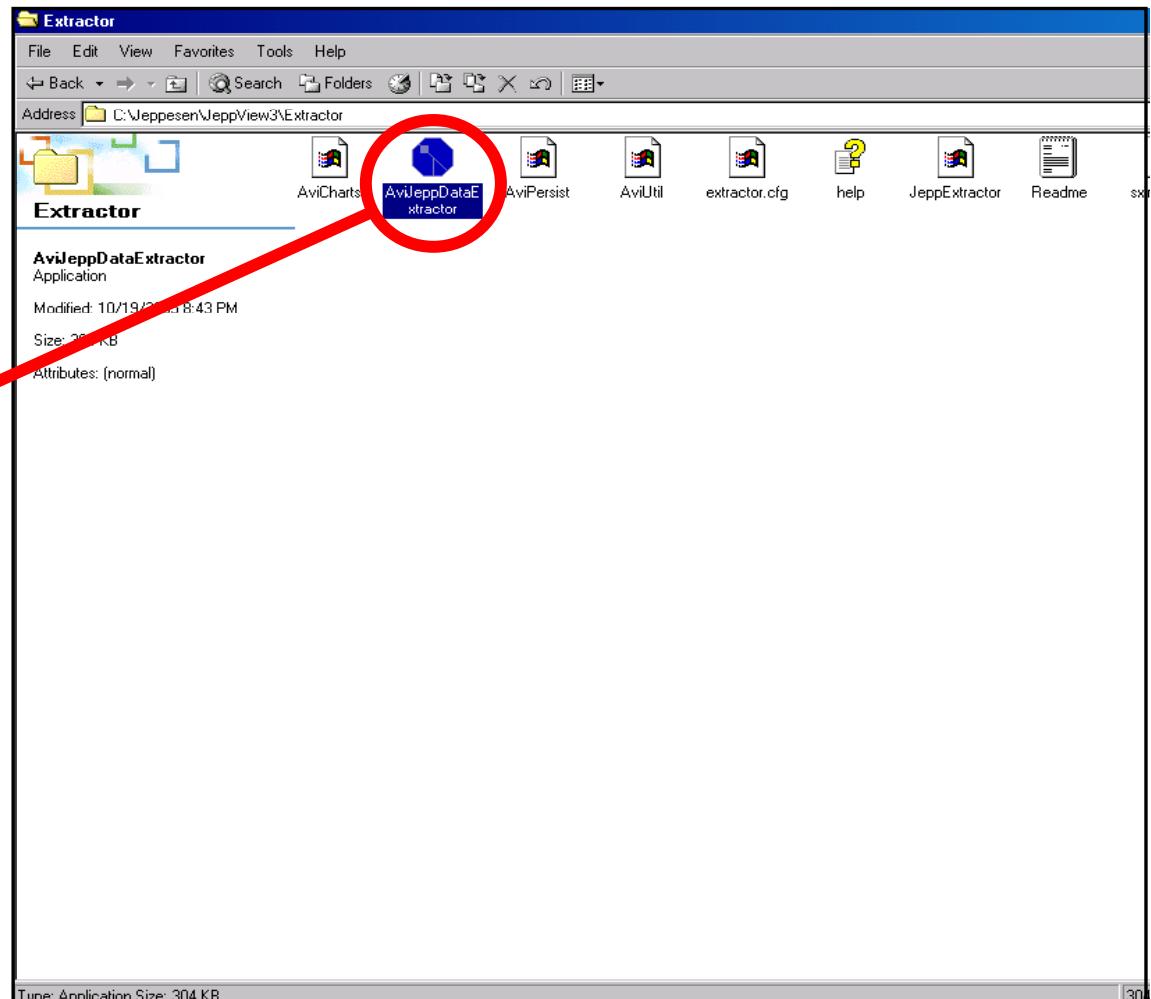
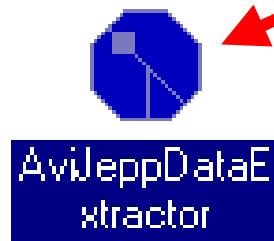


# Updating CMax Chart Data by Jeppesen CDs

## CMax Chart Data Update Procedures

### Avidyne CMax Data Extractor

1. Then select and open the AviJeppDataExtractor program.

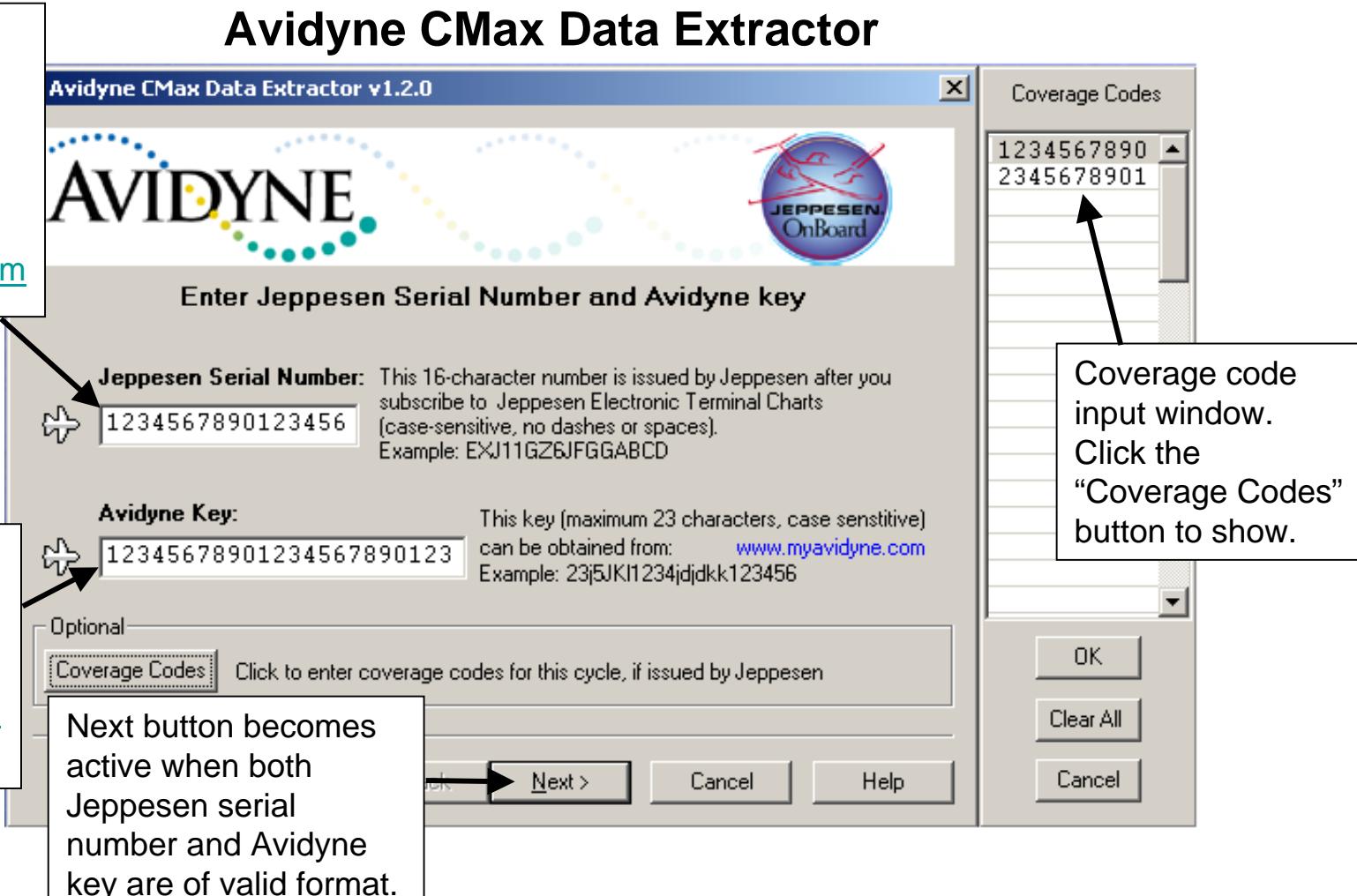


# Updating CMax Chart Data by Jeppesen CDs

## CMax Chart Data Update Procedures

Jeppesen Serial Number from your subscription. This can be copied and pasted from your login on [www.MyAvidyne.com](http://www.MyAvidyne.com)

Avidyne CMax Key Code can also be copied and pasted from your login on [www.MyAvidyne.com](http://www.MyAvidyne.com)

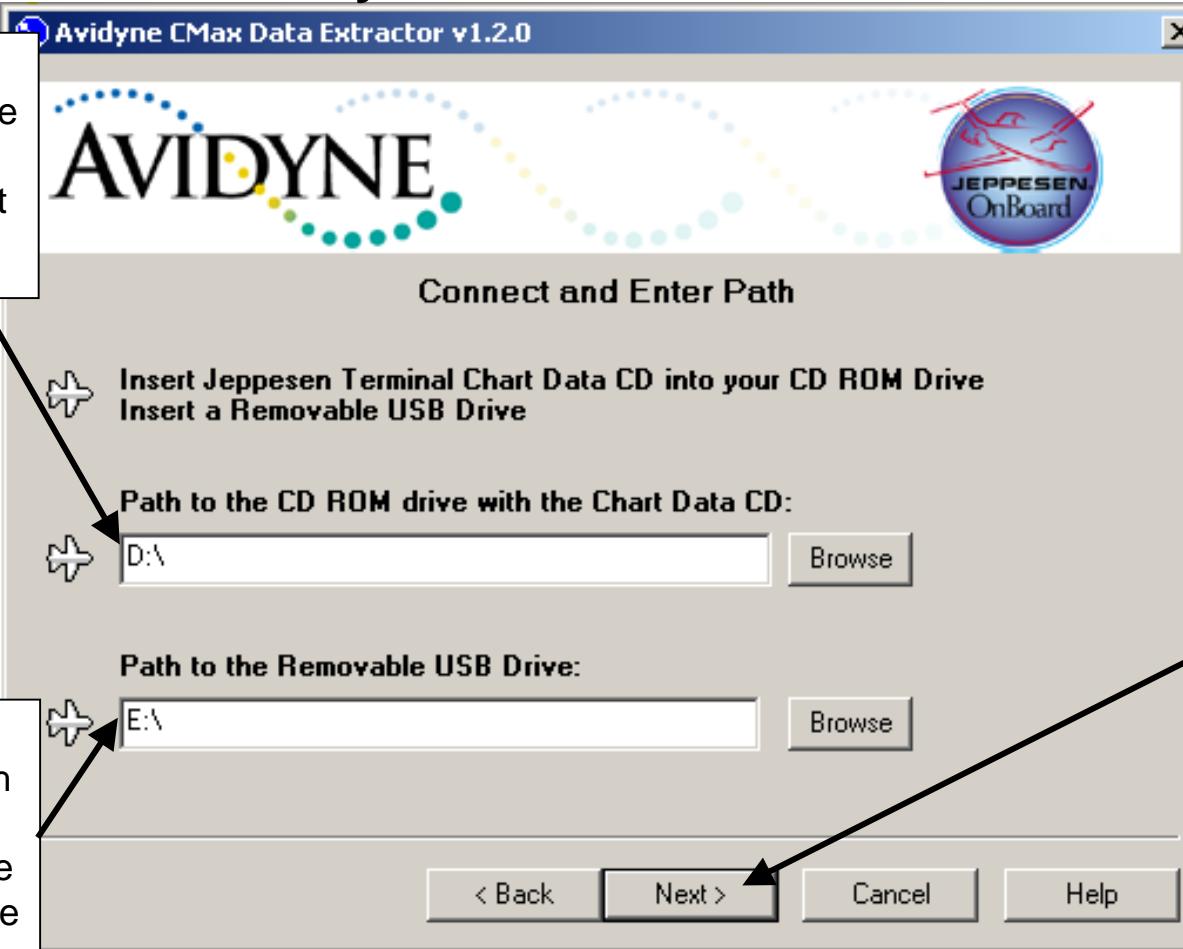


# Updating CMax Chart Data by Jeppesen CDs

## CMax Chart Data Update Procedures

### Avidyne CMax Data Extractor

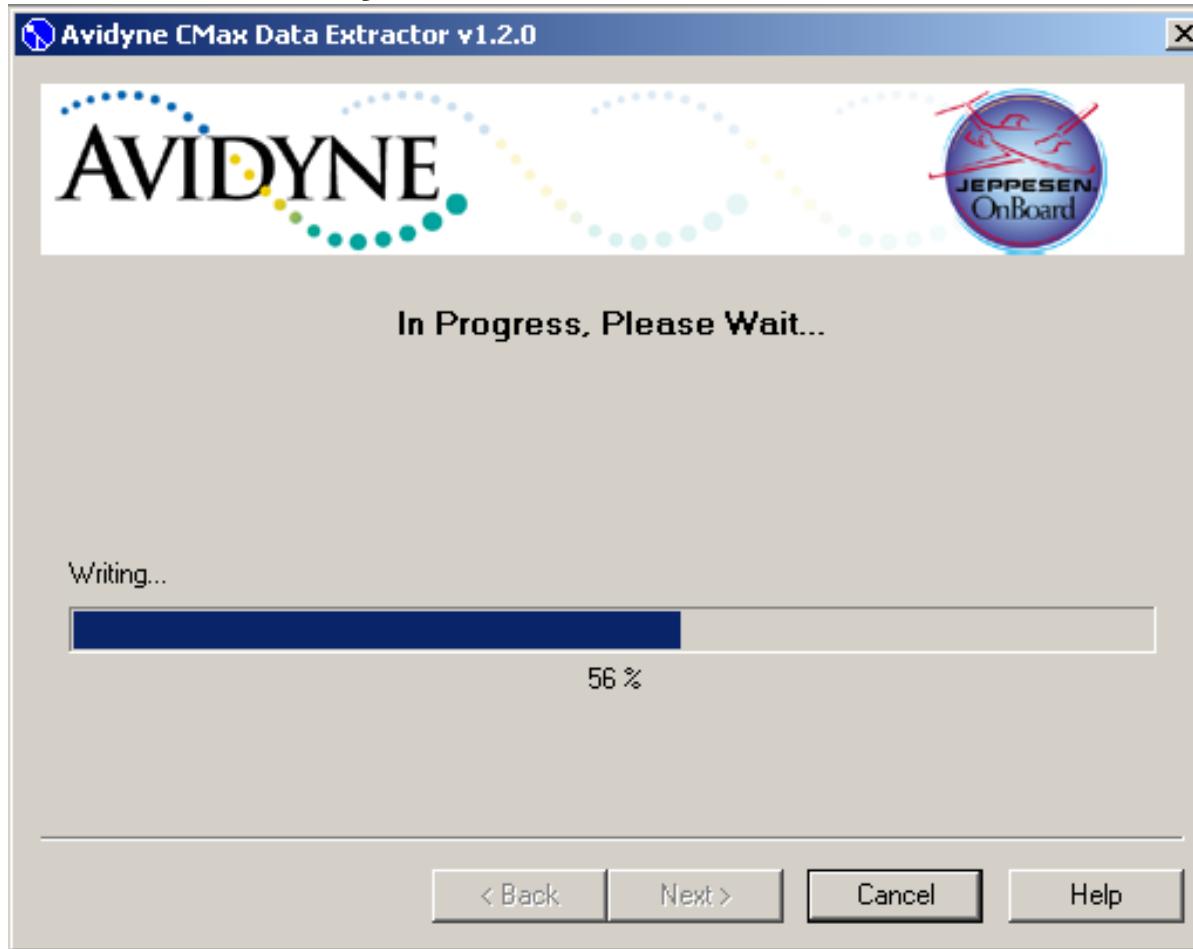
JeppView Source Data Path. This is the path to the CD ROM drive with the current Chart Data CD.



# Updating CMax Chart Data by Jeppesen CDs

## CMax Chart Data Update Procedures

### Avidyne CMax Data Extractor



# Updating CMax Chart Data by Jeppesen CDs

## CMax Chart Data Update Procedures

### Avidyne CMax Data Extractor Troubleshooting

#### MFD Data Update Troubleshooting Technique Guide

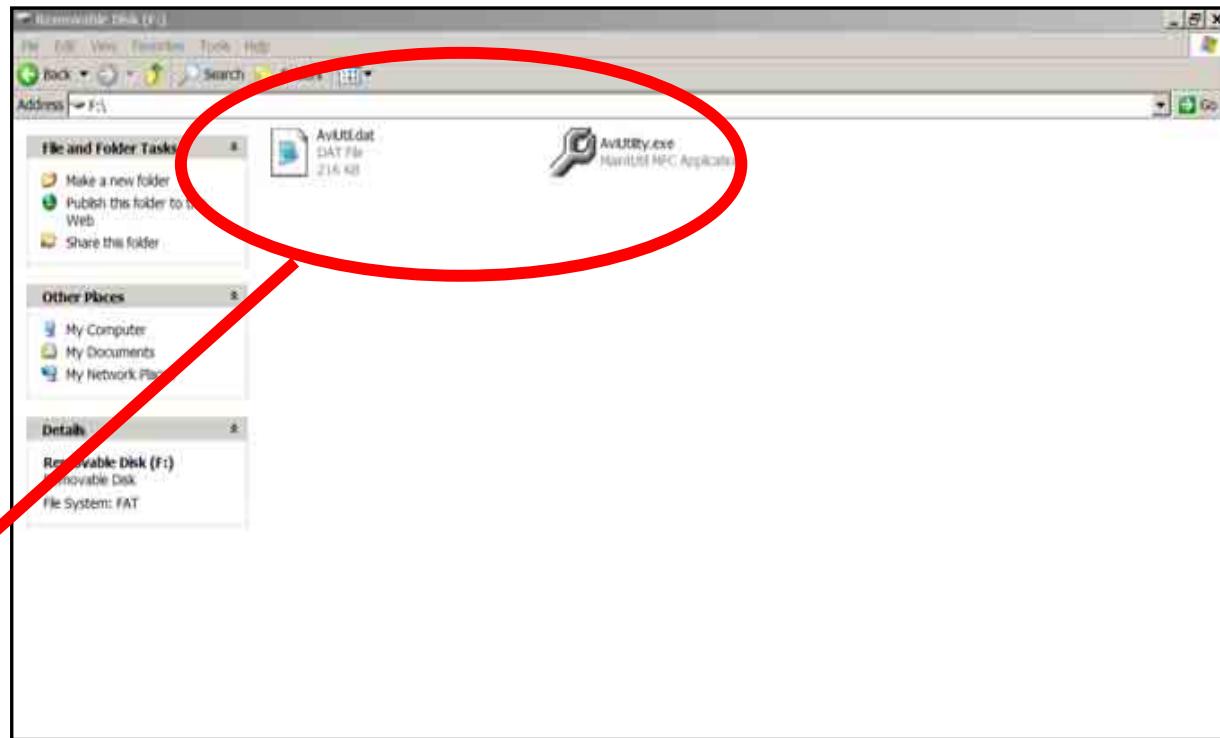


Data Extractor Errors	Solutions
The Jeppesen serial number is invalid.	<ul style="list-style-type: none"><li>Verify that the serial number was correctly entered. This number is case sensitive. Be aware that the letter "O" is different from the number "0," and the letters capital "I" and small "l" are different from the number "1." Use Copy and Paste to avoid these types of errors.</li><li>Verify your subscription information is correct at <a href="http://www.jeppesen.com">www.jeppesen.com</a></li></ul>
The CMax key is invalid.	<ul style="list-style-type: none"><li>Verify the CMax key was correctly entered. This number is case sensitive. The key is available at <a href="http://www.MyAvidyne.com">www.MyAvidyne.com</a>. Be aware that the letter "O" is different from the number "0," and the letters capital "I" and small "l" are different from the number "1." Use Copy and Paste to avoid these types of errors.</li></ul>

# Updating CMax Chart Data by Jeppesen CDs

## CMax Chart Data Update Procedures

1. After downloading the Jeppesen Electronic Chart Data update to your USB Flash Memory Drive/Zip Drive. Then go to MyComputer icon on your Desktop and right click your Removable Disk drive where your USB device is connected and right click to "Properties".



2. Verify you see these three files on your Removable Disk drive AviUtil.dat, AviPersist.dll and AviUtility.exe. If not download again.

3. Then disconnect your USB Flash Memory Drive/Zip Drive from your PC and take it out to your Aircraft to upload the CMax Chart Data updates to your Avidyne MFD.

# Uploading the CMax Chart Data to the MFD

## CMax Chart Data Update Procedures

1. First verify you have adequate power supply and a completely charged aircraft battery or ground power unit to power your MFD.
2. Carefully remove the USB cover so you can connect your USB Flash Memory Drive to your MFD USB port.
3. Then power up your Aircraft avionics power to power up the MFD.
4. Next follow the MFD screen prompts to upload your CMax Chart Data updates to the MFD.



# Uploading the CMax Chart Data to the MFD

## CMax Chart Data Update Procedures

- 1. First verify you have adequate power supply and a completely charged aircraft battery or ground power unit to power your MFD.**
- 2. Carefully remove the USB cover so you can connect your Zip Drive dataloader to your MFD USB port with the Zip disk not inserted.**
- 3. Then power up your Aircraft avionics power to power up the MFD.**
- 4. When you see the FlightMax logo screen insert the Zip disk into the Zip Drive dataloader.**
- 5. Next follow the MFD screen prompts to upload your CMax Chart Data updates to the MFD.**



# Uploading the CMax Chart Data to the MFD

## CMax Chart Data Update Procedures



# Uploading the CMax Chart Data to the MFD

## CMax Chart Data Update Procedures



# Uploading the CMax Chart Data to the MFD

## CMax Chart Data Update Procedures

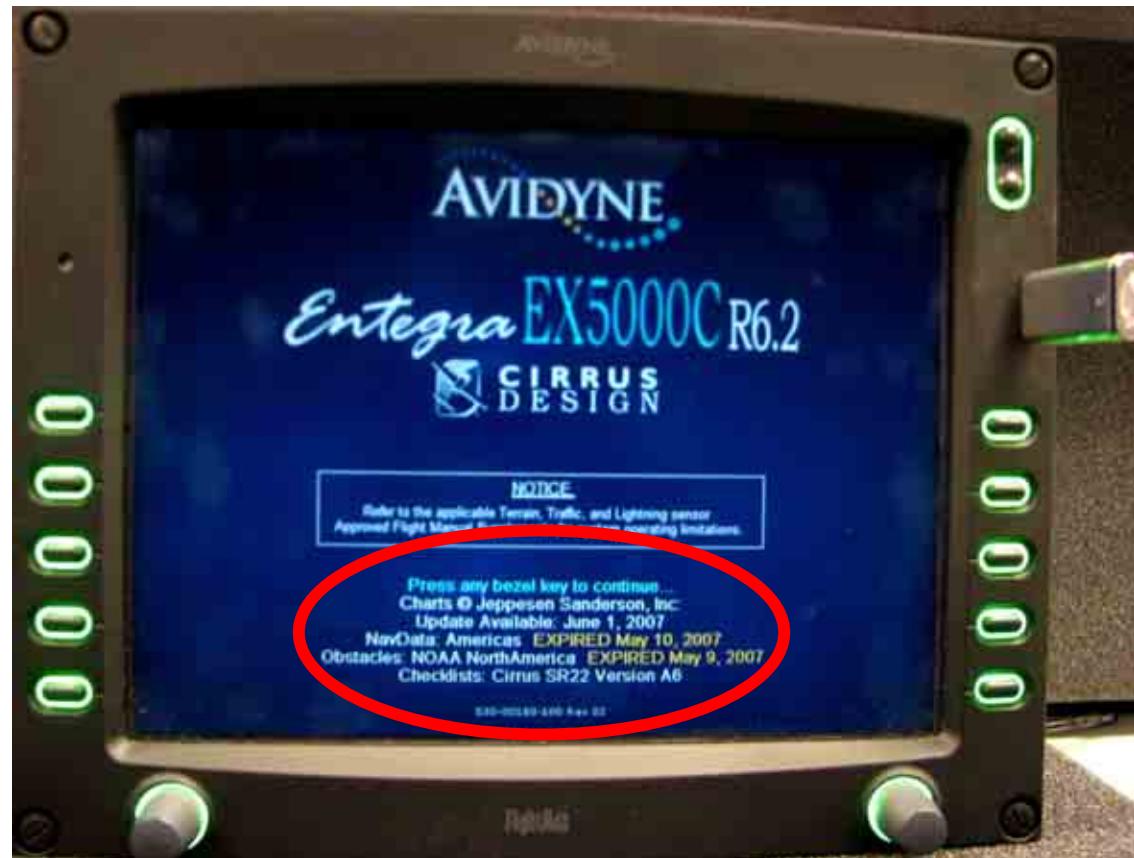


# Uploading the CMax Chart Data to the MFD

## CMax Chart Data Update Procedures

1. Verify the CMax Chart Data updates subscription dates are correctly shown on the MFD display.
2. Disconnect the USB Flash Memory Drive/Zip Drive from your MFD.

**Note:** The CMax Chart Data will display on your Chart page for only 10 weeks after the Expired Date.



# Uploading the CMax Chart Data to the MFD

## CMax Chart Data Update Procedures

### Avidyne CMax Chart Data Updating Troubleshooting

MFD Data Load Error	Solution
The MFD data load reports corrupt data file.	<ul style="list-style-type: none"><li>Power down MFD, verify the data load cable is properly connected.</li><li>The file stored on the Zip disk may be corrupted. Rerun the CMax Extractor on your PC.</li></ul>
This Jeppesen Chart Update is not authorized for use on this MFD.	<ul style="list-style-type: none"><li>Verify the data was created for this MFD.</li><li>If using JSUM, verify that the CMax Key Code is correct. Jeppesen does not verify the CMax Key Code during download.</li><li>Chart data for different MFDs is not interchangeable.</li><li>Regenerate the Key Code.</li></ul>
The MFD indicates no chart data after reboot.	<ul style="list-style-type: none"><li>Reload data. Watch for errors during data load. Be sure the MFD indicates a successful data load before powering down.</li></ul>
Chart data on MFD does not match subscribed regions.	<ul style="list-style-type: none"><li>If this is a new subscription or the regions in this subscription have been modified, check your Jeppesen information for coverage codes. If needed, run the extractor again and add the coverage codes.</li><li>Contact Jeppesen billing support.</li></ul>
The update has failed without affecting the unit	<ul style="list-style-type: none"><li>Your Zip disk or USB Flash Memory Device may be corrupt. Re-format the portable USB device and try again.</li></ul>
Zip Disk ejects from Zip Drive Dataloader and the MFD goes into a normal Startup sequence.	<ul style="list-style-type: none"><li>Zip Disk is in the incorrect Format. Re-format Zip Disk to format "FAT" and upload updates</li></ul>
Updating with a USB Flash Memory Drive the MFD goes into a normal Startup sequence.	<ul style="list-style-type: none"><li>USB Flash Memory Drive is in the incorrect Format. Re-format USB Flash Memory Drive to format "FAT" and upload updates.</li></ul>

# Uploading the CMax Chart Data to the MFD

## CMax Chart Data Update Procedures

### Avidyne CMax Chart Data Updating Troubleshooting

MFD Data Load Error	Solution
<b>Failure Handler called with unexpected state (##)</b>	<ul style="list-style-type: none"><li>Contact Avidyne Technical Support. Be sure to write down the state number.</li></ul>
<b>Invalid disk</b>	<ul style="list-style-type: none"><li>Your Zip disk or USB Flash Memory Device may be corrupt. Reformat the portable USB device and try again.</li></ul>
<b>Error writing files</b>	<ul style="list-style-type: none"><li>Try updating your data again. If the problem persists, call Avidyne Technical Support.</li></ul>
<b>Not enough space</b>	<ul style="list-style-type: none"><li>Your portable USB device is too small. For CMax Chart Data, ensure that you are using a 250MB Zip Disk or 256MB or larger USB Flash Memory Device</li></ul>
<b>Internal error:</b>	<ul style="list-style-type: none"><li>Try updating your data again.</li><li>If the problem persists, call Avidyne Technical Support. Be sure to have the error number available</li></ul>
<b>CMax Data Update Failed Verifying CRC Error</b>	<ul style="list-style-type: none"><li>If updating CMax Chart Data using JSUM online, then download the latest JSUM online version at: <a href="http://www.jeppesen.com/JSUM">www.jeppesen.com/JSUM</a> Retry updating CMax Data.</li><li>Try using the Jeppesen Electronic Chart Disk CD with the CMax Data Extractor.</li></ul>
<b>The MFD indicates Ready to Write Engine/Broadcast Data to Removable Media when trying to upload Database updates</b>	<ul style="list-style-type: none"><li>Either the USB Flash Memory Drive or Zip Disk is blank or has incorrect files. Upload the Database updates again using either JSUM or the Data Extractor</li></ul>

# EX5000 MFD

## EMax™ Total Engine Management Data Procedure



# EX5000 MFD

## EMax™ Total Engine Management Data Procedure

1. To be able to download the Emax Total Engine Management Data you must have a EX5000 MFD with the Emax Engine option.
2. Verify that you have the Engine Page tab located at the bottom of your MFD Map page.
3. The Emax Total Engine Management Data provides real-time recording of time, position, and critical engine performance parameter. The Emax records engine and position for the last 100 hours of flight. The Data is recorded every six seconds while the MFD is operating.



# Formatting the Zip Disk/USB Flash Drive

## EMax™ Total Engine Management Data Procedure

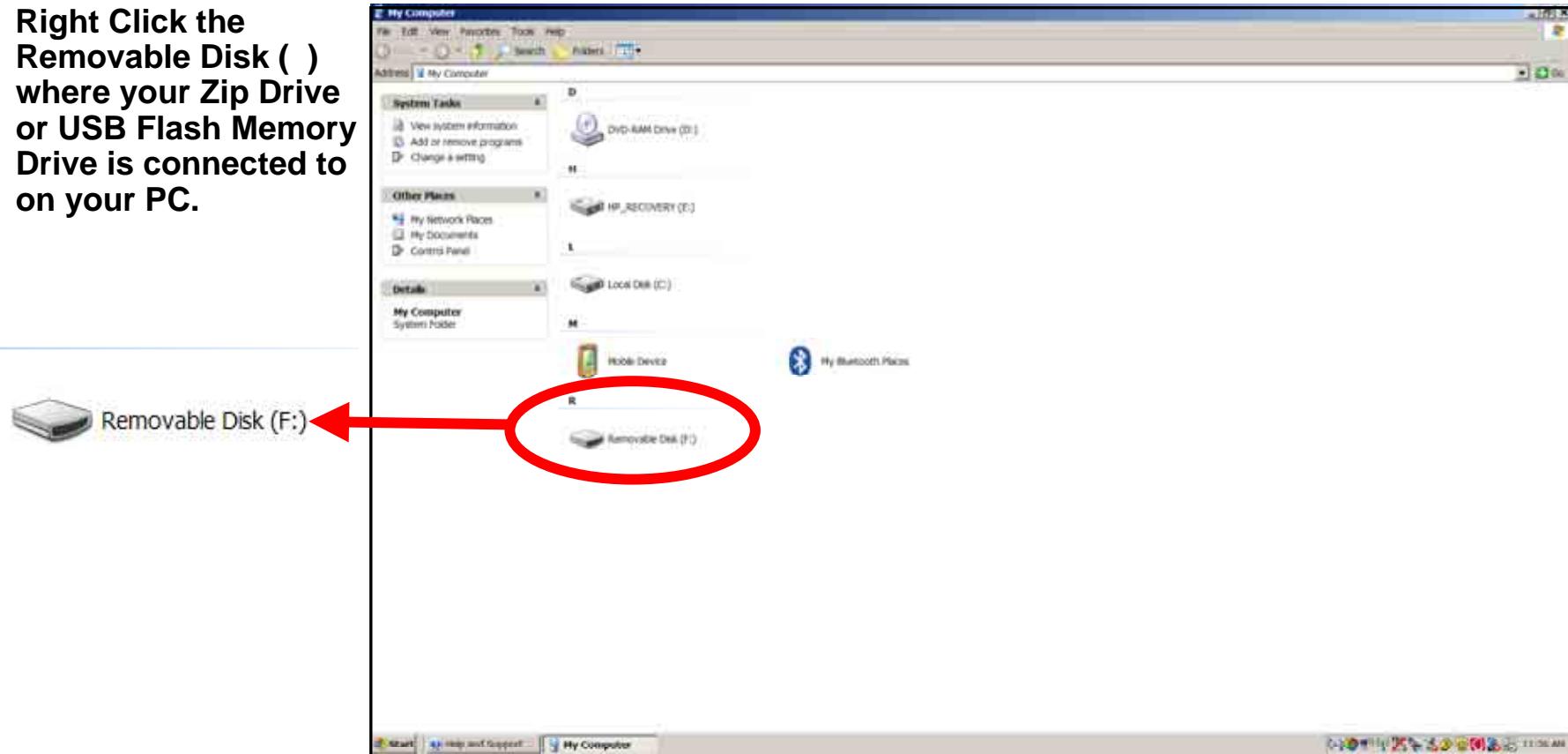
1. **Connect your Zip Drive Dataloader with the Zip Disk inserted into your USB port on your PC OR Connect your USB Flash Memory Drive into your USB port on your PC.**
2. **Double left click the My Computer Icon on your PC Desktop.**



# Formatting the Zip Disk/USB Flash Drive

## EMax™ Total Engine Management Data Procedure

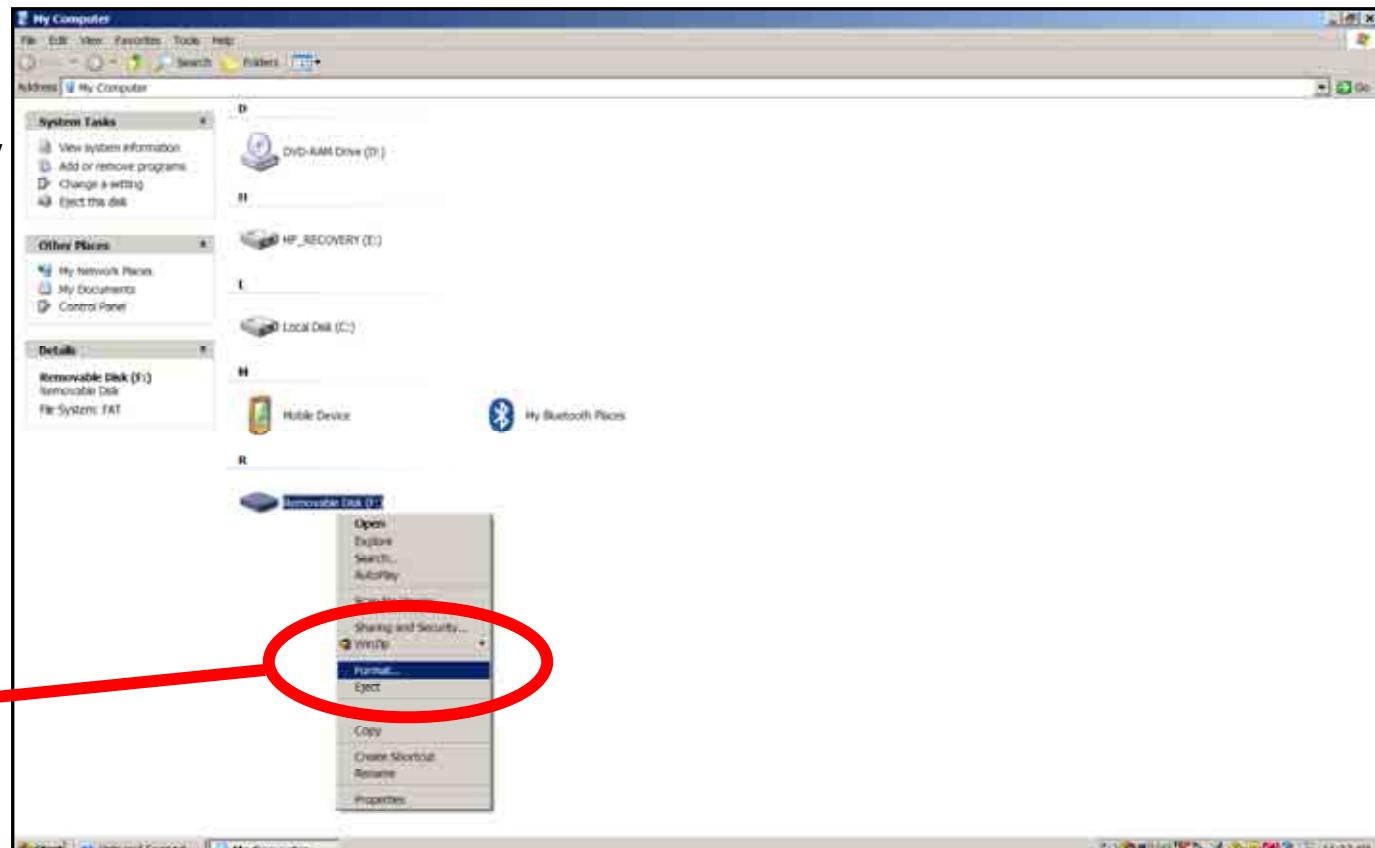
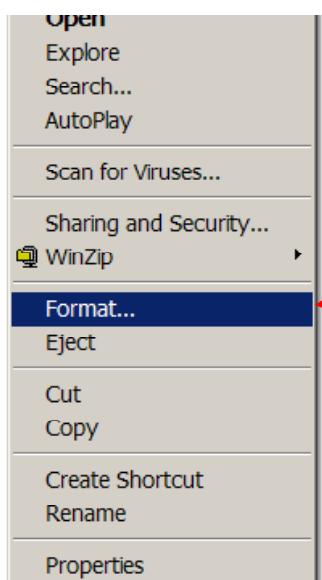
1. Right Click the Removable Disk ( ) where your Zip Drive or USB Flash Memory Drive is connected to on your PC.



# Formatting the Zip Disk/USB Flash Drive

## EMax™ Total Engine Management Data Procedure

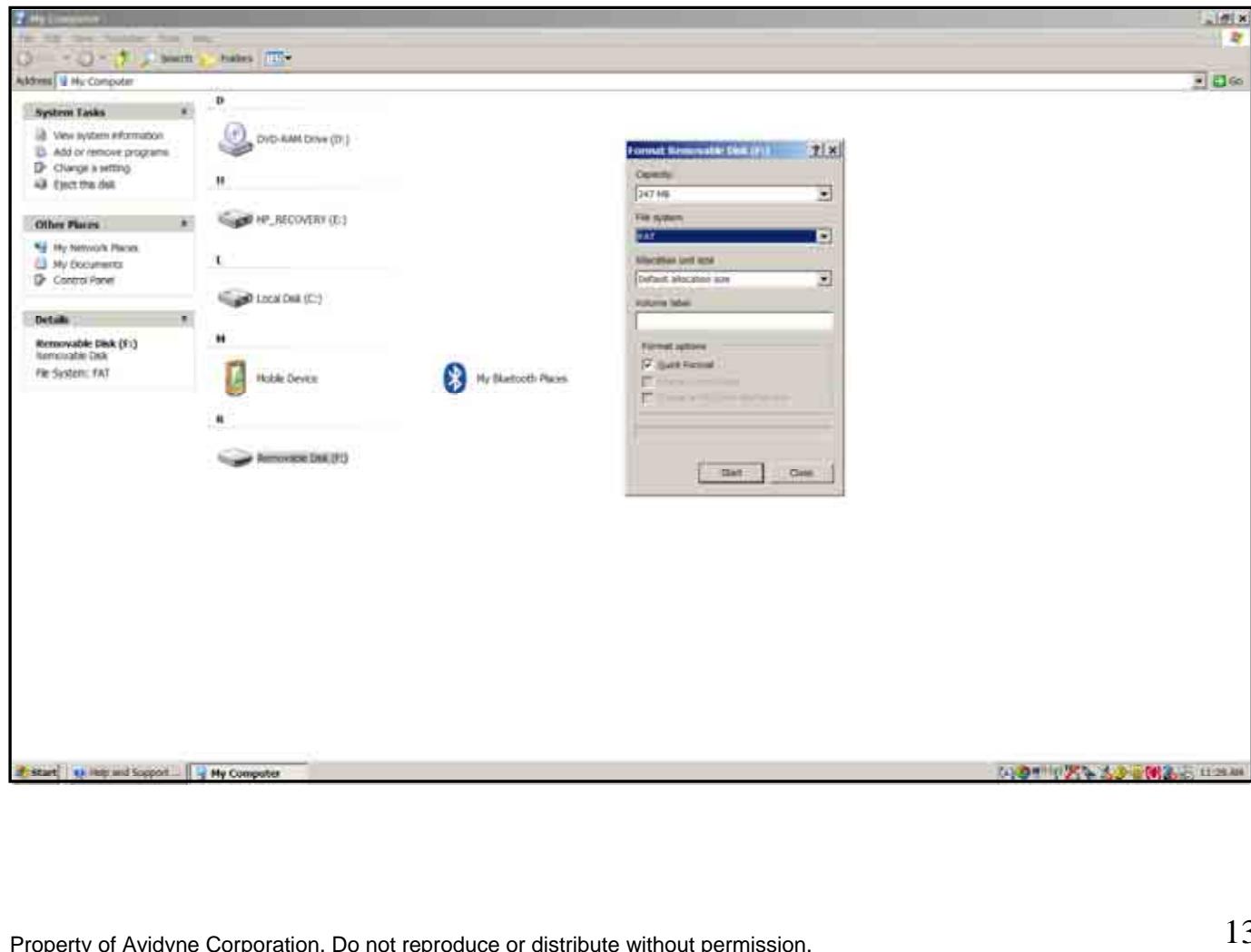
1. Right Click the Removable Disk ( ) where your Zip Drive or USB Flash Memory Drive is connected to on your PC.
2. Then left click the option Format



# Formatting the Zip Disk/USB Flash Drive

## EMax™ Total Engine Management Data Procedure

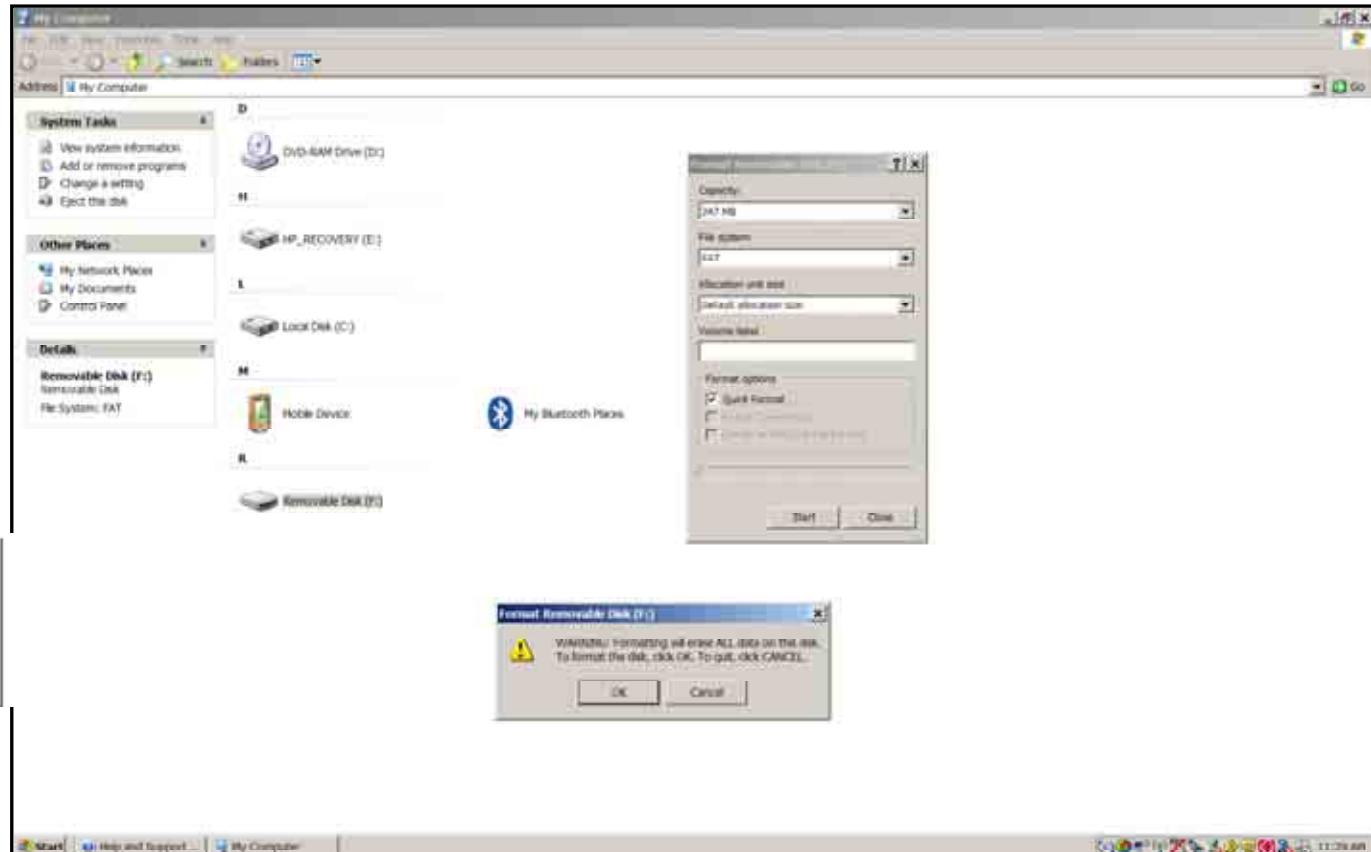
1. Then choose “FAT” under the File system selection.
2. Check Quick Format under Format Options.
3. Then click Start.



# Formatting the Zip Disk/USB Flash Drive

## EMax™ Total Engine Management Data Procedure

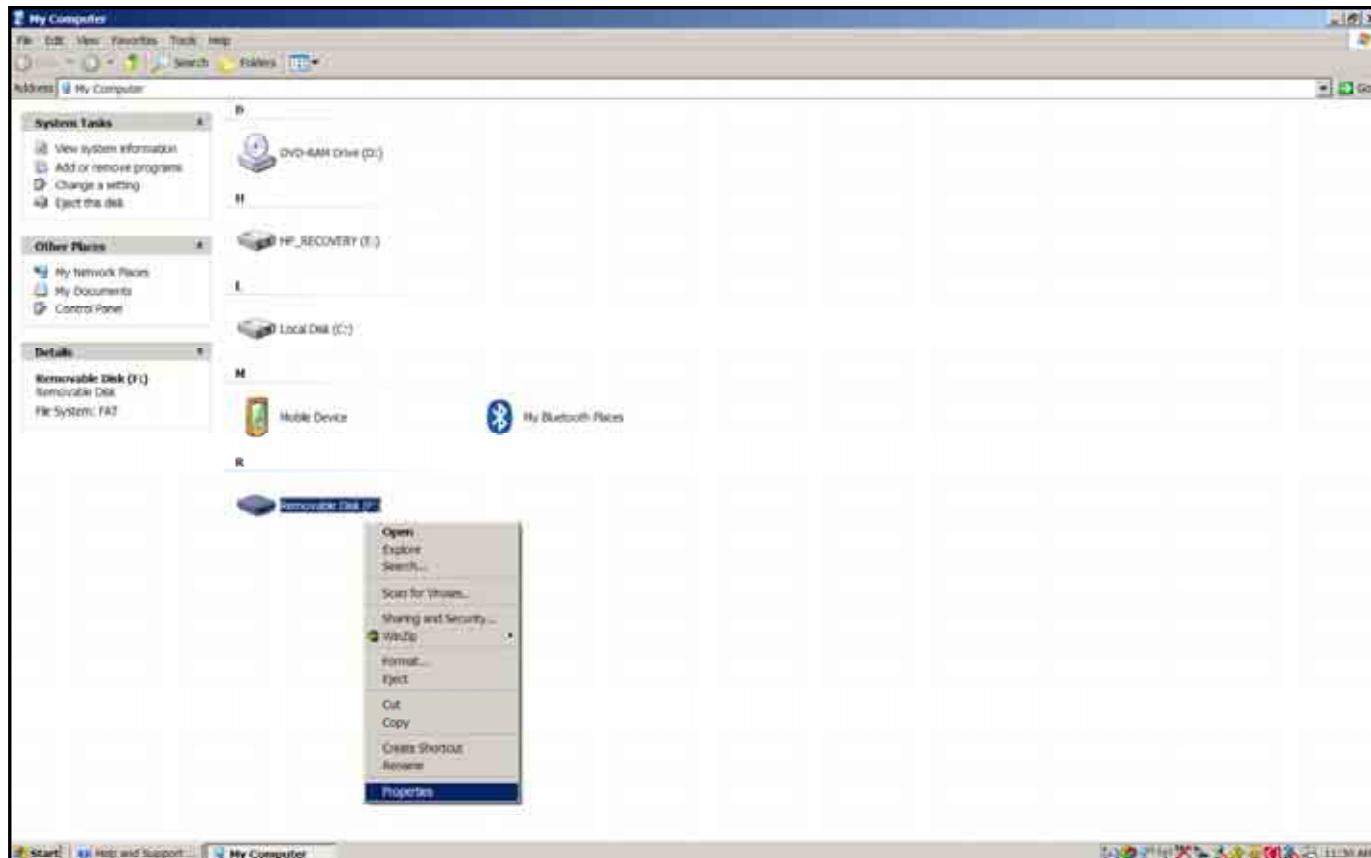
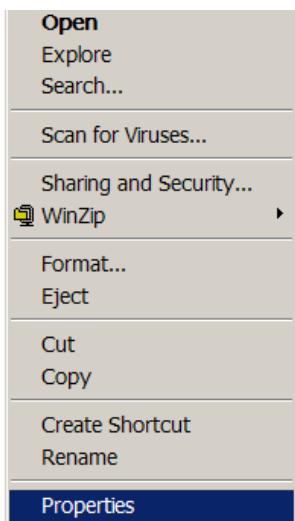
1. A Warning Box will display stating "WARNING: Formatting will erase ALL data on this disk. To format the disk, click OK, To quit, click CANCEL" You want to click "OK" to format and erase unnecessary data from the USB device.



# Formatting the Zip Disk/USB Flash Drive

## EMax™ Total Engine Management Data Procedure

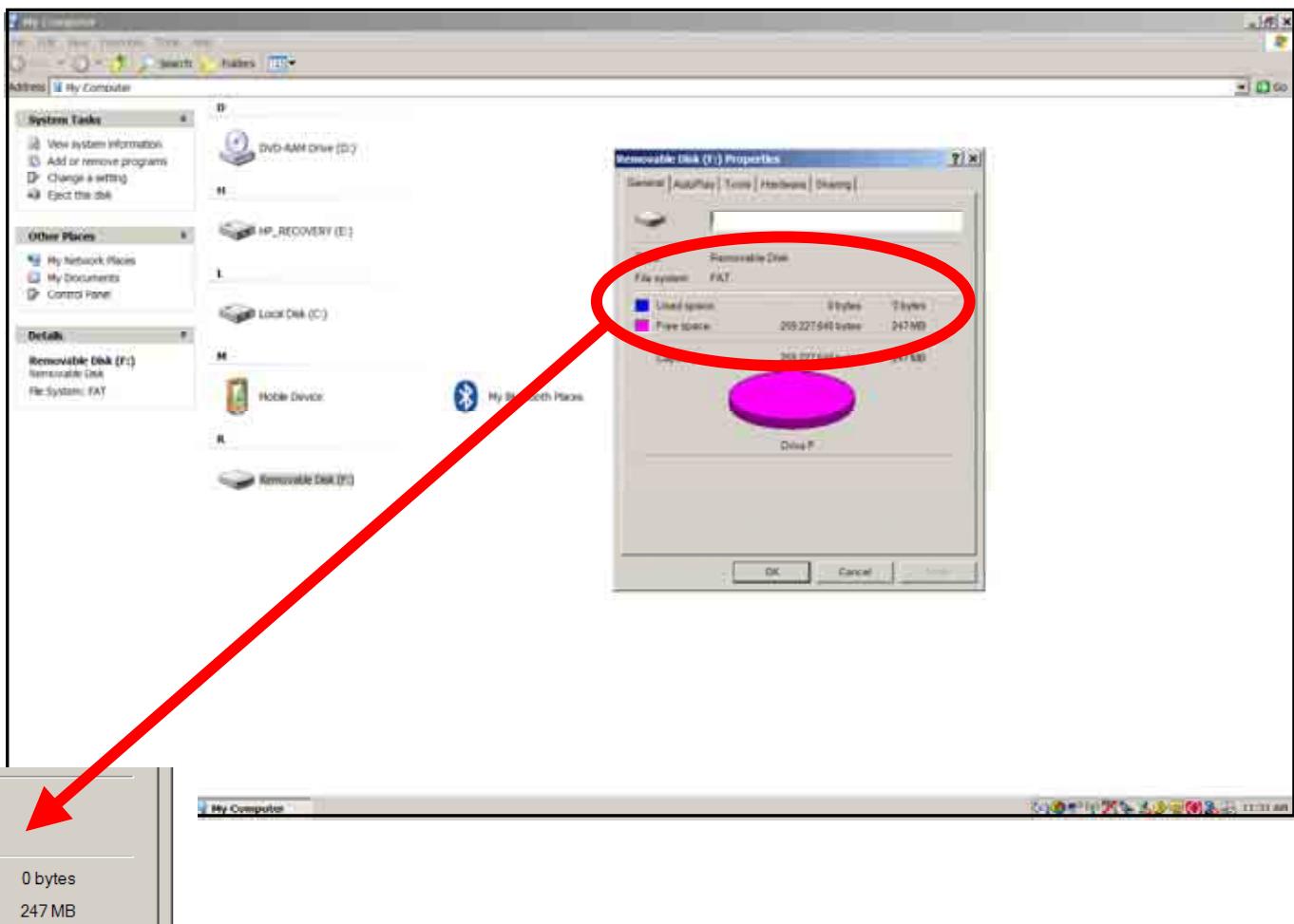
1. Next you want to verify that your USB device is correctly Formatted and is cleared of all other Data.
2. Right click the Removable Disk ( ).
3. Then scroll down to Properties and then left click the Properties selection.



# Formatting the Zip Disk/USB Flash Drive

## EMax™ Total Engine Management Data Procedure

1. Verify under File system it shows “FAT”
2. Verify on Used space it shows 0 bytes.
3. If either File system shows other than “FAT” or under Used space it shows more than 0 bytes. Then reformat USB device again.
4. Take your “FAT” formatted empty USB Flash Memory Drive/Zip Drive out to your aircraft.



# Downloading the Emax Engine Data from the MFD

## EMax™ Total Engine Management Data Procedure

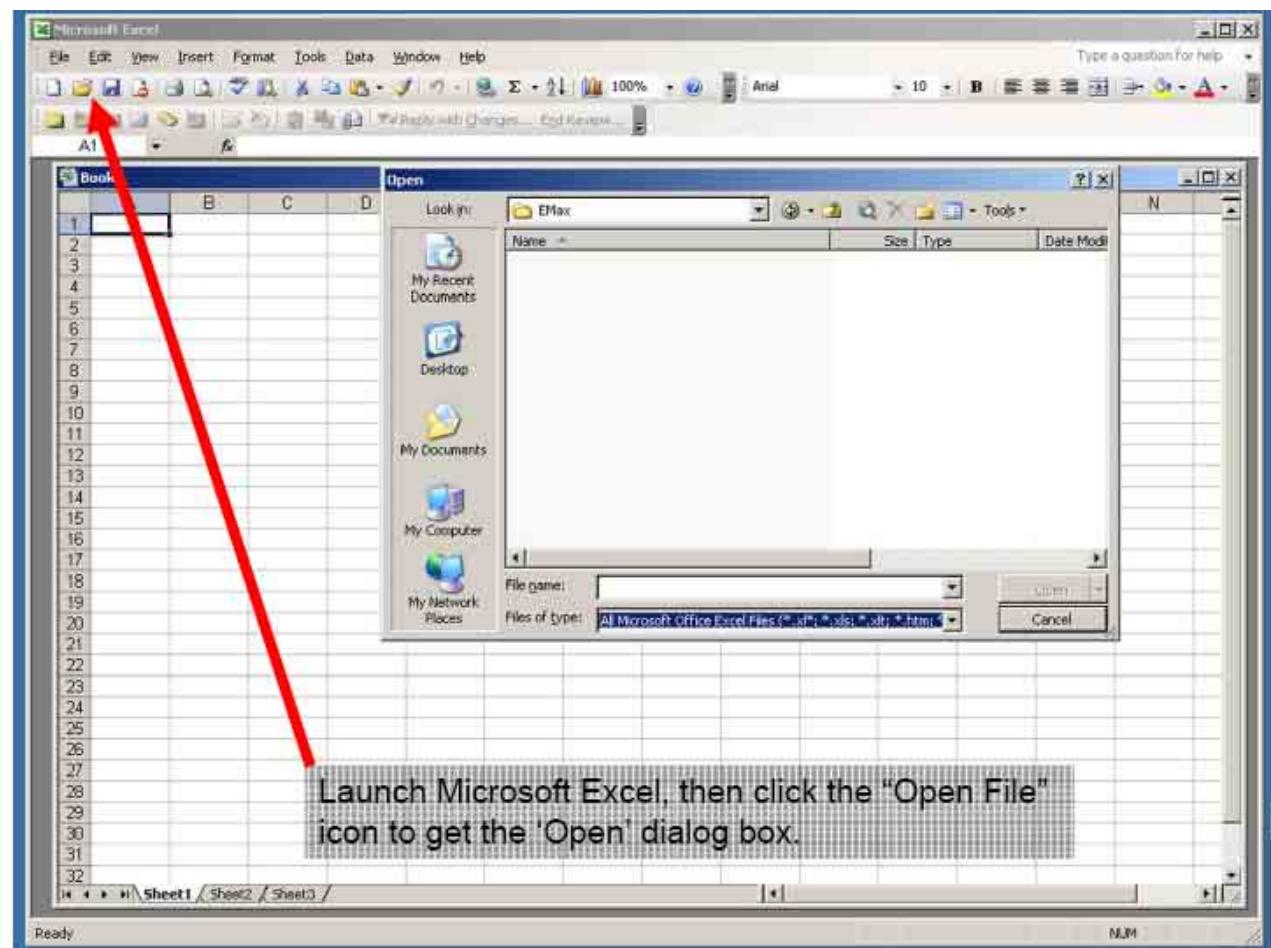
1. First verify you have adequate power supply and a completely charged aircraft battery or ground power unit to power your MFD.
2. Carefully remove the USB cover so you can connect your USB Flash Memory Drive to your MFD USB port.
3. Then power up your Aircraft avionics power to power up the MFD.
4. Next follow the MFD screen prompts to download your Emax Engine Data from the MFD.



# Downloading the Emax Engine Data from the MFD

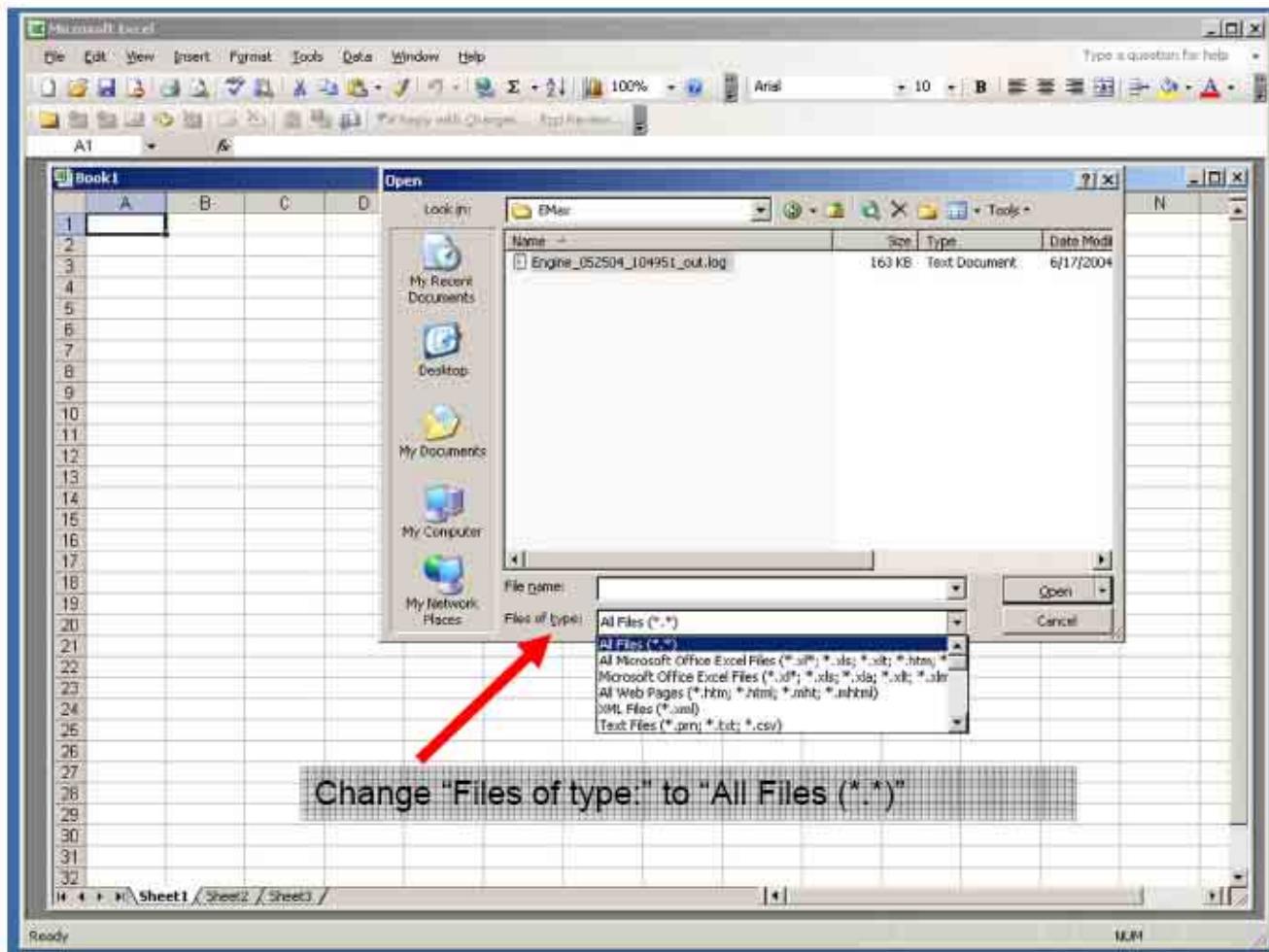
## EMax™ Total Engine Management Data Procedure

1. Once you have downloaded your Emax Total Engine Management Data onto your USB Flash Memory Drive/Zip Drive then take it to your PC and insert it into your PC USB port.
2. You can open this Emax Engine Data in these two files:
  - An ASCII text file (.txt) containing the engine performance data, which can be open by most spreadsheet programs like Excel for analysis.
  - A Jeppesen Track file (.log) containing position data that is compatible with Jeppesen FliteStar. For more information about FliteStar track file see [www.Jeppesen.com](http://www.Jeppesen.com).



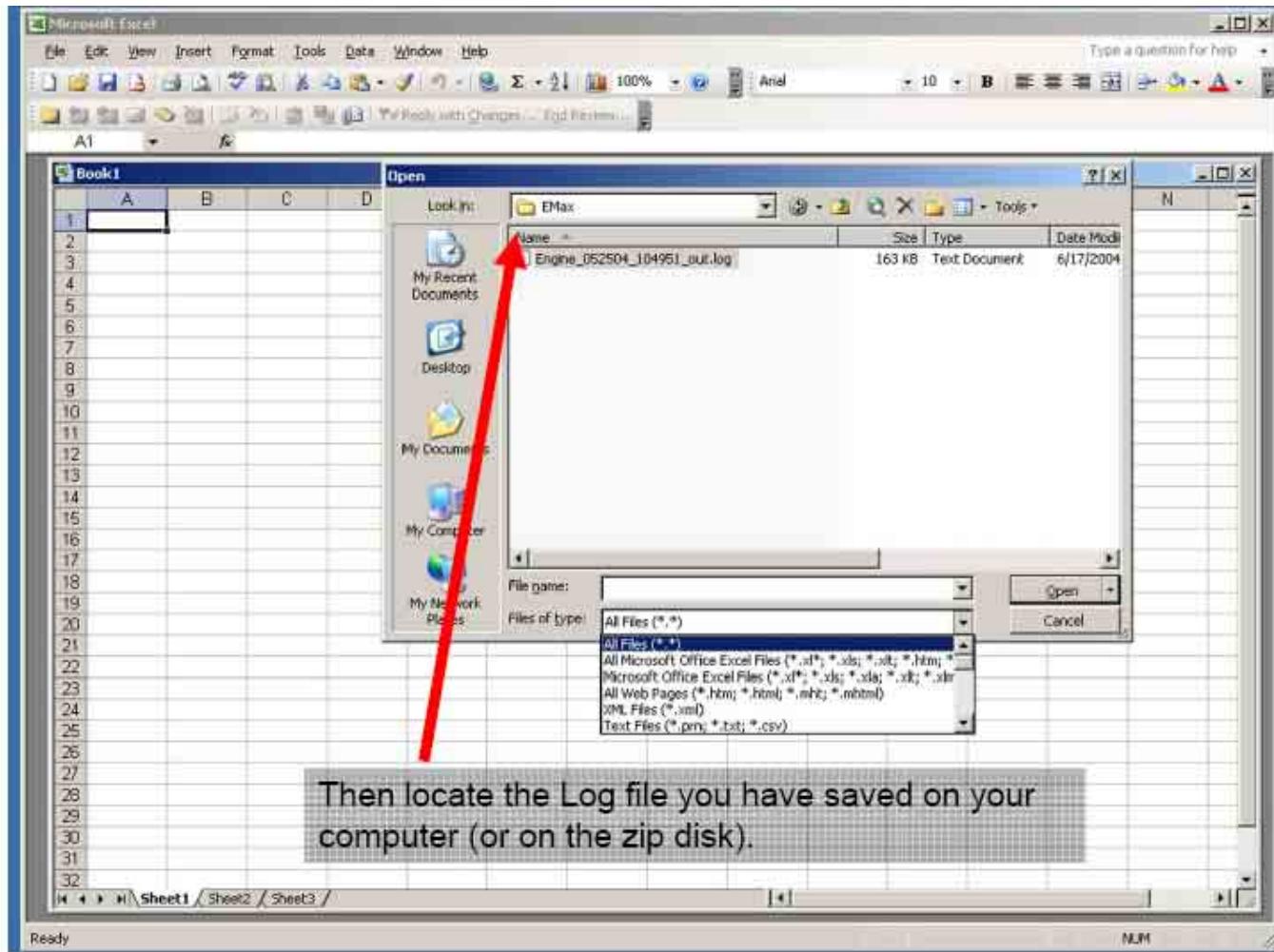
# Downloading the Emax Engine Data from the MFD

# **EMax™ Total Engine Management Data Procedure**



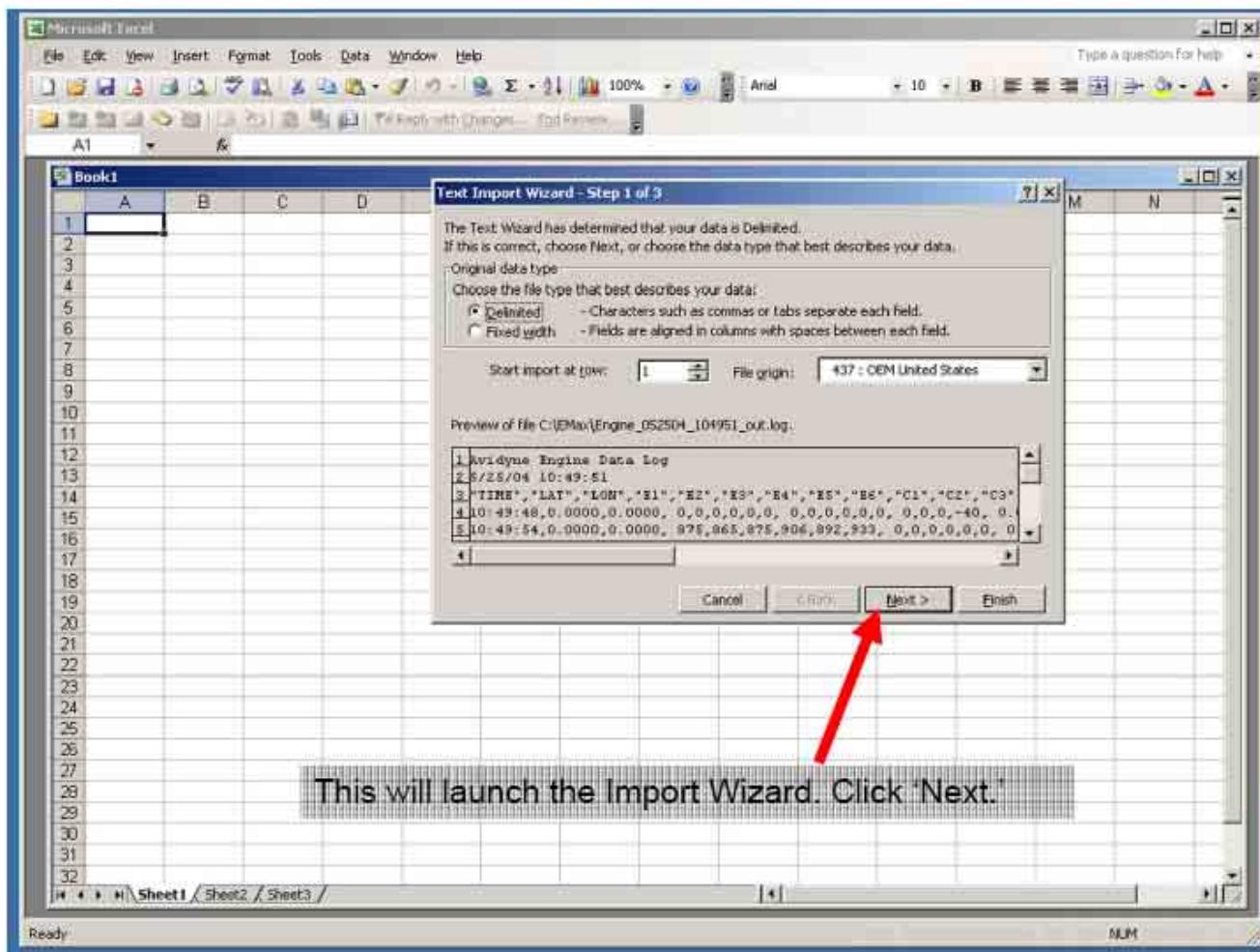
# Downloading the Emax Engine Data from the MFD

## EMax™ Total Engine Management Data Procedure



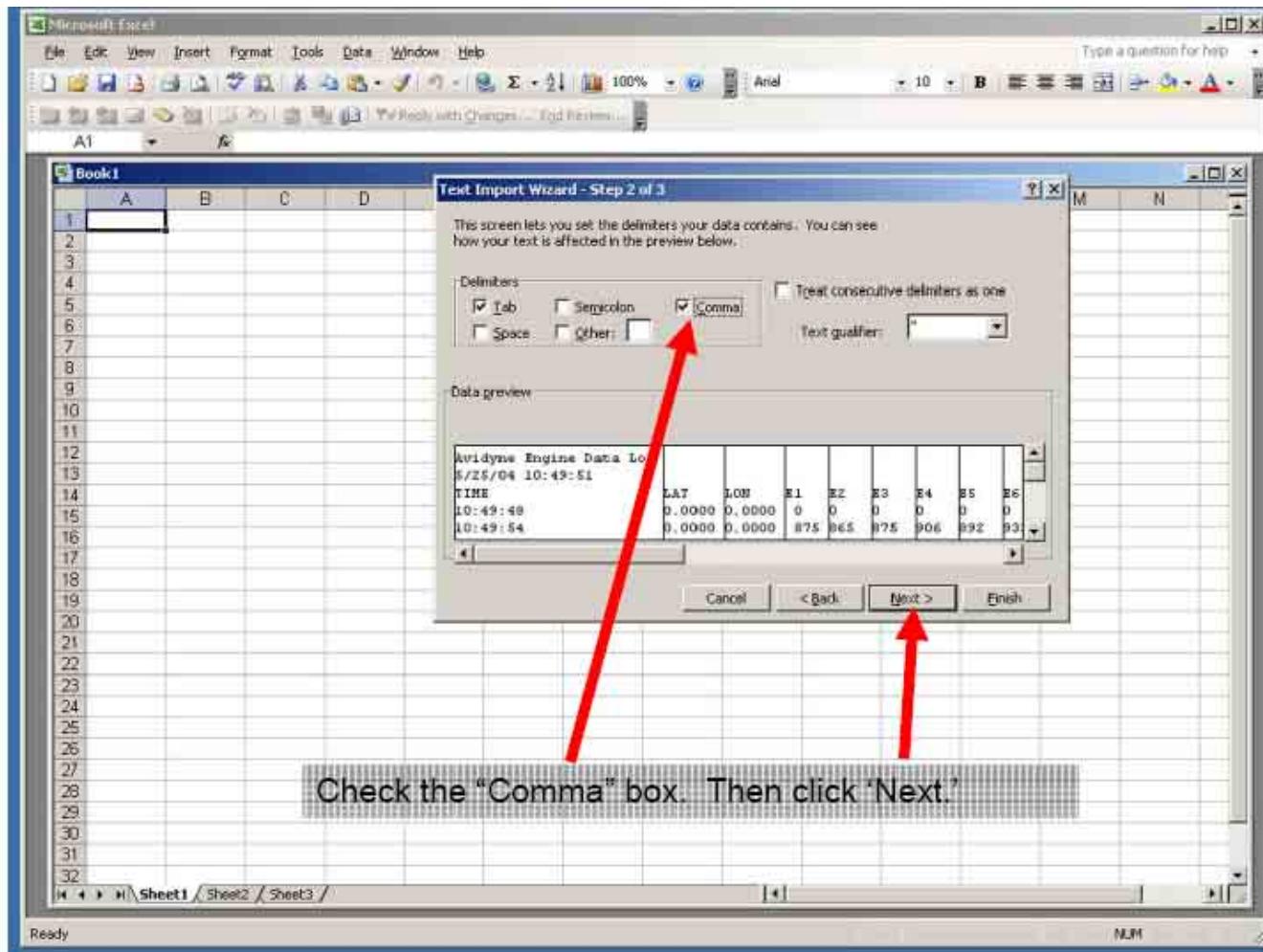
# Downloading the Emax Engine Data from the MFD

## EMax™ Total Engine Management Data Procedure



# Downloading the Emax Engine Data from the MFD

## EMax™ Total Engine Management Data Procedure



# Downloading the Emax Engine Data from the MFD

## EMax™ Total Engine Management Data Procedure

The screenshot shows a Microsoft Excel window titled "Avidyne Engine Data Log". The file name in the title bar is "Engine\_052504\_104951\_out.xls". The data starts with a header row "Avidyne Engine Data Log" followed by a "#.#.#.#" row. The first data row has the column headers: TIME, LAT, LON, E1, E2, E3, E4, E5, E6, C1, C2, C3, C4, C5. The TIME column is highlighted with a red box. The data continues with rows of timestamped engine parameters. A large black rectangular box covers the bottom portion of the data area, containing the text: "Your Engine Log Data will appear, with data time-stamped every 6 seconds...". The bottom status bar of the Excel window shows the file path "H:\Engine\052504\_104951\_out.xls".

A	B	C	D	E	F	G	H	I	J	K	L	M	N	
1	Avidyne Engine Data Log													
2	#.#.#.#													
3	TIME	LAT	LON	E1	E2	E3	E4	E5	E6	C1	C2	C3	C4	C5
4	10:49:48	0	0	0	0	0	0	0	0	0	0	0	0	0
5	10:49:54	0	0	875	865	875	906	892	933	0	0	0	0	0
6	10:50:00	0	0	887	872	892	921	902	949	0	0	0	0	0
7	10:50:06	0	0	898	888	904	937	921	962	0	0	0	0	0
8	10:50:12	0	0	904	902	910	950	931	973	0	0	0	0	0
9	10:50:18	0	0	912	910	915	957	941	978	0	0	0	0	0
10	10:50:24	0	0	919	922	917	969	945	986	0	0	0	0	0
11	10:50:30	0	0	862	839	877	866	914	910	0	0	0	0	0
12	10:50:36	0	0	814	743	849	818	895	863	0	0	0	0	0
13	10:50:42	0	0	825	717	852	752	886	855	0	0	0	0	0
14	10:50:48	0	0	818	716	829	727	881	834	0	0	0	0	0
15	10:50:54	0	0	886	815	886	856	944	930	0	0	0	0	0
16	10:51:00	0	0	845	845	908	888	912	953	0	0	0	0	0
17	10:51:06	0	0	882	886	926	919	935	975	0	0	0	0	104
18	10:51:12	0	0	813	862	870	903	908	892	0	0	102	0	107
19	10:51:18	0	0	785	856	837	816	895	822	101	0	105	0	109
20	10:51:24	46.839	-92.2034	743	805	836	785	887	805	104	0	107	0	112
21	10:51:42	46.839	-92.2034	706	753	832	728	883	812	107	0	111	0	116
22	10:51:48	46.839	-92.2034	720	767	820	702	886	790	110	0	113	103	118
23	10:51:54	46.839	-92.2034	696	760	823	683	883	769	112	101	116	105	122
24	10:52:00	46.839	-92.2034	690	777	810	679	883	772	115	104	118	108	125
25	10:52:06	46.839	-92.2034	703	750	780	673	887	819	118	107	121	111	128
26	10:52:12	46.839	-92.2034	733	765	768	689	879	816	120	110	123	113	131
27	10:52:18	46.839	-92.2034										115	133
28	10:52:24	46.839	-92.2034										117	136
29	10:52:30	46.839	-92.2034										119	139
30	10:52:36	46.8392	-92.2034										121	141
31	10:52:42	46.8392	-92.2034		920	922	927	944	943	1005	134	126	124	144
32	10:52:48	46.8392	-92.2034										126	147

# Avidyne MFD Data Update Tutorial

