Avidyne MFD Data Update Tutorial
# Avidyne MFD Data Update Tutorial

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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, 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’
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
1. Go to 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 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.
- 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 Smyth.
- 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.
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?”
1. Write down your Username and Password and store it in a safe place.
www.Myavidyne.com

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.
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.
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

Registering your Avidyne Product

1. Enter your Avidyne unit’s serial number.

2. When completed click the Finish Enrollment button.
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 MultiLink 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.
1. For all of your Avidyne Database Products and Services subscriptions click on the Products & Services link.
1. Next select the Charting and Navigation Services link.
Jeppesen Subscription Overview

1. Then select the IFR Chart Services link.
1. Then select the Electronic Charting Services-JeppView link.
1. Then choose the correct JeppView for your Avidyne MFD which here would be JeppView for Multi-function Displays (MFDs).
Jeppesen Subscription Overview

Electronic Charting Services - JeppView

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 to 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

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.
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.

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

<table>
<thead>
<tr>
<th>Coverage Options*</th>
<th>Order Code</th>
<th>Coverage Options*</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full USA</td>
<td>MFUSA</td>
<td>Central Europe</td>
<td>MFECN</td>
</tr>
<tr>
<td>USA Military</td>
<td>MFUSM</td>
<td>Eastern Europe</td>
<td>MFEAS</td>
</tr>
<tr>
<td>East</td>
<td>MFUSB</td>
<td>Special Manual</td>
<td>MFESM</td>
</tr>
<tr>
<td>East and Central</td>
<td>MFUSC</td>
<td>France</td>
<td>MFIRA</td>
</tr>
<tr>
<td>Central</td>
<td>MFUSD</td>
<td>Germany</td>
<td>MFGER</td>
</tr>
<tr>
<td>Central and West</td>
<td>MFUSE</td>
<td>Italy</td>
<td>MFITA</td>
</tr>
<tr>
<td>West</td>
<td>MFUSF</td>
<td>Northern Europe</td>
<td>MFENR</td>
</tr>
<tr>
<td>Canada</td>
<td>MFCA</td>
<td>Scandinavia</td>
<td>MFSCA</td>
</tr>
<tr>
<td>Alaska</td>
<td>MFCA</td>
<td>Middle East</td>
<td>MFEMS</td>
</tr>
<tr>
<td>Latin America</td>
<td>MFIAM</td>
<td>South Africa</td>
<td>MFSAF</td>
</tr>
<tr>
<td>South America</td>
<td>MFSA</td>
<td>Spain</td>
<td>MFSPA</td>
</tr>
<tr>
<td>Pacific Basin</td>
<td>MFIBN</td>
<td>United Kingdom</td>
<td>MFUKI</td>
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</tbody>
</table>

*For pricing and more information, please call Jeppesen (800.621.3377) or Jeppesen GmbH (+49 8102 308270).
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
1. Remember to always download the latest version of the Jeppesen Services Update Manager (JSUM) on to your PC.
1. Verify that your PC or Notebook meets the Jeppesen minimum JeppView System Requirement.

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**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
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.
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.shtm](http://www.avidyne.com/techpubs.shtm)
Minimum System Requirements

NavData Update Procedures

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

- Microsoft Windows 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 for a list of approved USB Flash Memory Devices.
### Avidyne Approved USB Flash Memory Devices

#### NavData Update Procedures

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apacer</td>
<td>HandySteno</td>
<td>256</td>
</tr>
<tr>
<td>Apacer</td>
<td>AudioSteno</td>
<td>512</td>
</tr>
<tr>
<td>Kingston</td>
<td>Data Traveler</td>
<td>256</td>
</tr>
<tr>
<td>Kingston</td>
<td>Data Traveler</td>
<td>512</td>
</tr>
<tr>
<td>PNY</td>
<td>Attache</td>
<td>256</td>
</tr>
<tr>
<td>PNY</td>
<td>Attache</td>
<td>512</td>
</tr>
<tr>
<td>Sandisk</td>
<td>Cruzer Mini</td>
<td>256</td>
</tr>
<tr>
<td>Sandisk</td>
<td>Cruzer Mini</td>
<td>512</td>
</tr>
<tr>
<td>SmartModular</td>
<td>USB-IF Hi-Speed 2.0</td>
<td>256</td>
</tr>
<tr>
<td>SmartModular</td>
<td>USB-IF Hi-Speed 2.0</td>
<td>512</td>
</tr>
<tr>
<td>Transcend</td>
<td>JetFlash</td>
<td>256</td>
</tr>
<tr>
<td>Transcend</td>
<td>JetFlash</td>
<td>512</td>
</tr>
</tbody>
</table>

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

1. First visit Jeppesen website 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.

2. Contact Jeppesen 7 Days per week 6 AM-8 PM MT Call 1-800-621-5377
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 ( )** 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.
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 ( ).
3. Then scroll down to Properties and then left click the Properties selection.

Property of Avidyne Corporation. Do not reproduce or distribute without permission.
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 re-format USB device again.

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

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.
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/ or 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 for a complete list of Avidyne tested USB 2.0 Flash Memory devices.
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.
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.
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.
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

1. 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.

2. 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
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.
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.
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
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 in the Products/Publications Library menu.

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

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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.
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 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
www.Myavidyne.com

CMax Chart Data Update Procedures

1. Go to 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.
Generating a CMax Key Code

CMax Chart Data Update Procedures

1. **Next click on Generate Key Code.**
Generating a CMax Key Code

CMax Chart Data Update Procedures

1. The CMax Key Code will generate below.

![Image of CMax Key Code generation process]

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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.
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.
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 re-format USB device again.

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

![CMax Chart Data Update Interface]

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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.
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.
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 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.
CMax Chart Data Update Procedures

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

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.

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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 and then to Product/Publication Library menu: 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 which is located in the Product/Publication Library menu: 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

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.
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.
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.
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

Avidyne CMax Key Code can also be copied and pasted from your login on www.MyAvidyne.com

Coverage code input window. Click the “Coverage Codes” button to show.

Next button becomes active when both Jeppesen serial number and Avidyne key are of valid format.
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.

CMax Output Data Path. This is the path to the USB Flash drive/ZIP drive where the chart data is to be loaded.

The Next button will become active when both paths are valid.
Updating CMax Chart Data by Jeppesen CDs

CMax Chart Data Update Procedures

Avidyne CMax Data Extractor

In Progress, Please Wait...

Writing...

56 %
Avidyne CMax Data Extractor Troubleshooting

### MFD Data Update Troubleshooting Technique Guide

<table>
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<tr>
<th>Data Extractor Errors</th>
<th>Solutions</th>
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</thead>
</table>
| **The Jeppesen serial number is invalid.** | • 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 "i" are different from the number "1." Use Copy and Paste to avoid these types of errors.  
• Verify your subscription information is correct at www.jeppesen.com                                                                                           |
| **The CMax key is invalid.**           | • Verify the CMax key was correctly entered. This number is case sensitive. The key is available at www.MyAvidyne.com. Be aware that the letter "O" is different from the number "0," and the letters capital "I" and small "i" are different from the number "1." Use Copy and Paste to avoid these types of errors. |
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

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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

<table>
<thead>
<tr>
<th>MFD Data Load Error</th>
<th>Solution</th>
</tr>
</thead>
</table>
| The MFD data load reports corrupt data file. | • Power down MFD, verify the data load cable is properly connected.  
• The file stored on the Zip disk may be corrupted. Rerun the CMax Extractor on your PC.  
| This Jeppesen Chart Update is not authorized for use on this MFD. | • Verify the data was created for this MFD.  
• If using JSUM, verify that the CMax Key Code is correct. Jeppesen does not verify the CMax Key Code during download.  
• Chart data for different MFDs is not interchangeable.  
• Regenerate the Key Code. |
| The MFD indicates no chart data after reboot. | • Reload data. Watch for errors during data load. Be sure the MFD indicates a successful data load before powering down. |
| Chart data on MFD does not match subscribed regions. | • 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.  
• Contact Jeppesen billing support. |
| The update has failed without affecting the unit | • Your Zip disk or USB Flash Memory Device may be corrupt. Re-format the portable USB device and try again. |
| Zip Disk ejects from Zip Drive Dataloader and the MFD goes into a normal Startup sequence. | • Zip Disk is in the incorrect Format. Re-format Zip Disk to format “FAT” and upload updates. |
| Updating with a USB Flash Memory Drive the MFD goes into a normal Startup sequence. | • USB Flash Memory Drive is in the incorrect Format. Re-format USB Flash Memory Drive to format “FAT” and upload updates. |
# Uploading the CMax Chart Data to the MFD

## CMax Chart Data Update Procedures

### Avidyne CMax Chart Data Updating Troubleshooting

<table>
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<tr>
<th>MFD Data Load Error</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Failure Handler called with unexpected state (#4)</td>
<td>• Contact Avidyne Technical Support. Be sure to write down the state number.</td>
</tr>
<tr>
<td>Invalid disk</td>
<td>• Your Zip disk or USB Flash Memory Device may be corrupt. RefORMAT the portable USB device and try again.</td>
</tr>
<tr>
<td>Error writing files</td>
<td>• Try updating your data again. If the problem persists, call Avidyne Technical Support.</td>
</tr>
<tr>
<td>Not enough space</td>
<td>• Your portable USB device is too small. For CMax Chart Data, ensure that you are using a 250MB Zip Disk or 266MB or larger USB Flash Memory Device</td>
</tr>
<tr>
<td>Internal error:</td>
<td>• Try updating your data again. If the problem persists, call Avidyne Technical Support. Be sure to have the error number available</td>
</tr>
<tr>
<td>CMax Data Update Failed Verifying CRC Error</td>
<td>• 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.</td>
</tr>
<tr>
<td></td>
<td>• Try using the Jeppesen Electronic Chart Disk CD with the CMax Data Extractor.</td>
</tr>
<tr>
<td>The MFD indicates Ready to Write Engine/Broadcast Data to Removable Media when trying to upload Database updates</td>
<td>• 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</td>
</tr>
</tbody>
</table>
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.
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 re-format USB device again.
4. Take your “FAT” formatted empty USB Flash Memory Drive/Zip Drive out to your aircraft.
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.
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.
Downloading the Emax Engine Data from the MFD

EMax™ Total Engine Management Data Procedure

Change “Files of type:” to “All Files (*)”
Downloading the Emax Engine Data from the MFD

EMax™ Total Engine Management Data Procedure

Then locate the Log file you have saved on your computer (or on the zip disk).
Downloading the Emax Engine Data from the MFD

EMax™ Total Engine Management Data Procedure

This will launch the Import Wizard. Click 'Next.'
Downloading the Emax Engine Data from the MFD

EMax™ Total Engine Management Data Procedure

Check the “Comma” box. Then click “Next.”
Downloading the Emax Engine Data from the MFD

EMax™ Total Engine Management Data Procedure

Your Engine Log Data will appear, with data time-stamped every 6 seconds…
Avidyne MFD Data Update Tutorial