

NetGain Motors, Inc.

800 South State Street / Suite 4 / Lockport, IL 60441 / 630-243-9100 / 630-685-4054 (FAX)

Clone File Management Instructions



For use with
Hyper-Drive X1™
and
Hyper-Drive X144™
Controller/Inverters

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Table of Contents

When is Clone File Management Necessary?	3
Important Notes on Calibration!	4
Important Note on Motor Calibration!	4
Important Note on Throttle Calibration!	4
Uploading and Saving a Clone from HyPer-Drive Controllers	5
Requesting Clone Modifications or Troubleshooting Help	7
Installing a New Clone File on HyPer-Drive Controllers.....	8

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When is Clone File Management Necessary?

- During the pre-startup steps of a **HyPer** User Manual, for initial startup of a **HyPer-Drive X1™ or X144™** controller.
- When updating **HyPer-Drive** Controller Firmware to a different version.
- When asking your Authorized Dealer to change parameters in **HyPer-Drive** controller programming.
- When you need additional support to solve Diagnostic Codes or abnormal behavior of the vehicle.

If you are requesting parameter changes or troubleshooting support, you must provide the supporting party with:

1. **Product Code** of the Controller.
2. **Clone** file from the Controller.
3. Screenshots of the **About** Page in the Home Menu.
4. Screenshots of the **Active Faults** Tab in **Diagnose**
5. Screenshots of the **Faults History** Tab in **Diagnose**

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Important Notes on Calibration!

Important Note on Motor Calibration!

Your clone file must be calibrated to your motor before use. Please follow the Pre-Startup steps in your System's User Manual to commission the spin sensor. When you commission a sensor, you are calibrating the clone file for the individual motor it is controlling. This calibration is only stored within the clone file. **If your clone file is being modified, you must adhere to one of the following options:**

1. Modify the clone file that has already been commissioned to the motor.
2. Copy all parameters from the commissioned clone file's **Spin Sensor** tab into the generic clone you are installing.
3. Commission the sensor after installing a different clone file.

Installing a clone file without calibration to the specific motor may produce dangerous motor behavior upon throttle request.

Important Note on Throttle Calibration!

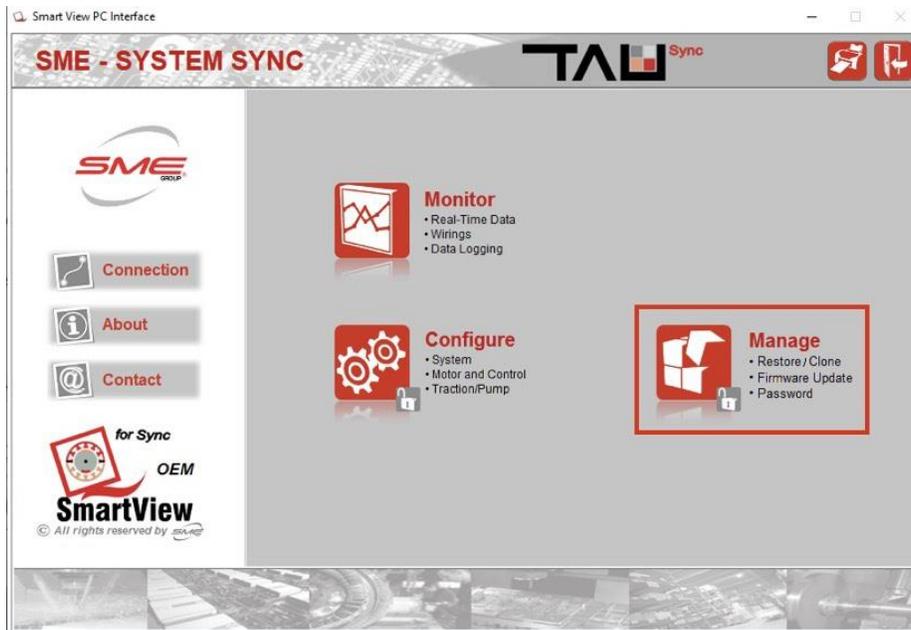
Please disconnect throttle or Motor Phase Cables before installing a clone that has not already been mapped to your throttle. Please follow the Pre-Startup steps in your System's User Manual to Map your Throttle. Installing a clone file with torque request at your resting throttle output may cause motor to produce unwanted torque upon completion of Cloning Load.

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Uploading and Saving a Clone from HyPer-Drive Controllers

Home – Manage: After establishing a connection between your controller and personal computer (PC), click **Manage** on the **Home** screen of SmartView.



Manage – Clone: To upload a Clone file that is on your Controller, click the icon with an arrow pointing to the Archive File Folder.

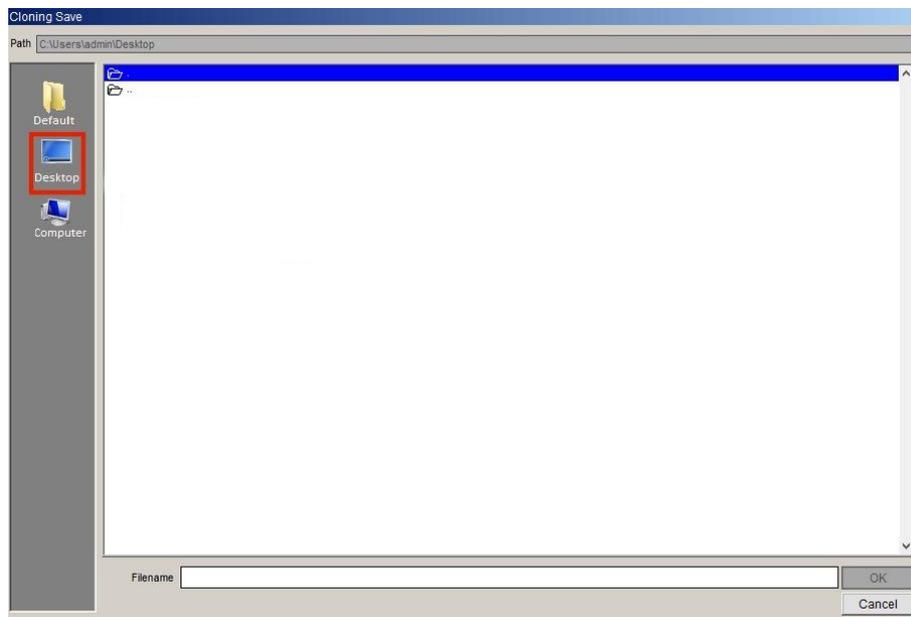


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Manage – Clone – To File Folder: To save a Clone file to your PC, choose a file path that you will know how to access. An easily accessible option is the Desktop Icon, which will save the clone file to the desktop of your PC. Create a Filename including your motor serial#, today's date, followed by REV00 (for first revision). Then click OK.

Example Filename: *H9HV000001_09022020_REV00*.



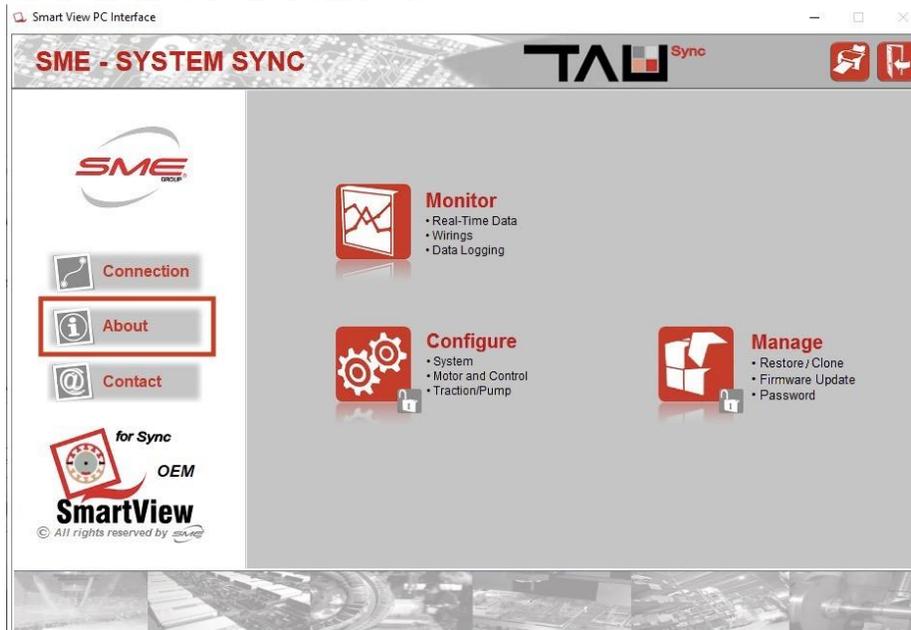
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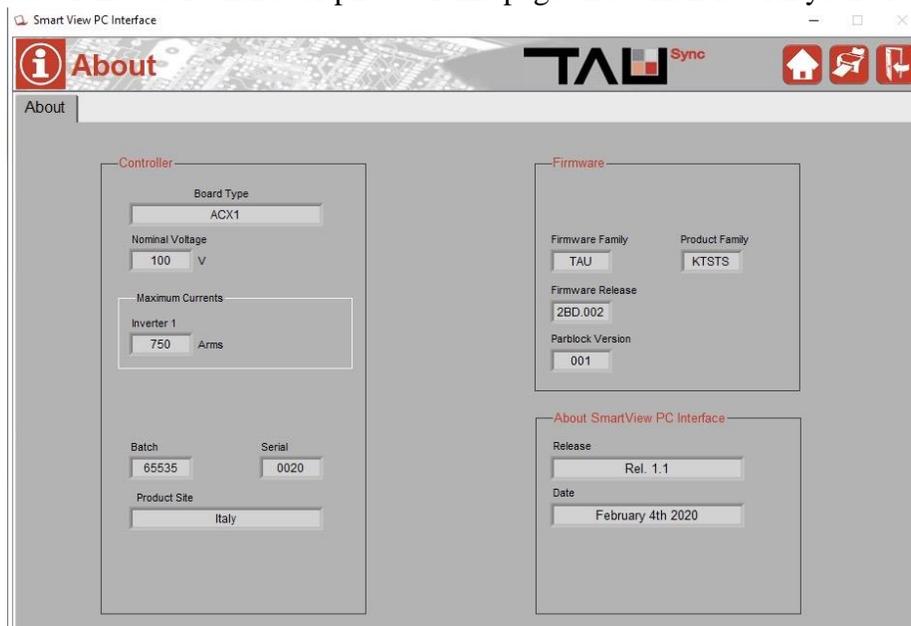
Requesting Clone Modifications or Troubleshooting Help

If you are e-mailing your Clone file to NetGain Motors, Inc. or an Authorized Dealer, the e-mail must also include a screenshot of the **About** page in SmartView. Please be sure the spin sensor has been commissioned in your new clone file before use (see [Important Note on Motor Calibration!](#))

Home – About: After establishing a connection between your controller and Personal Computer (PC), click **About** on the **Home** screen of SmartView.



About – About: Take a screenshot or photo of this page and e-mail it with your clone file.



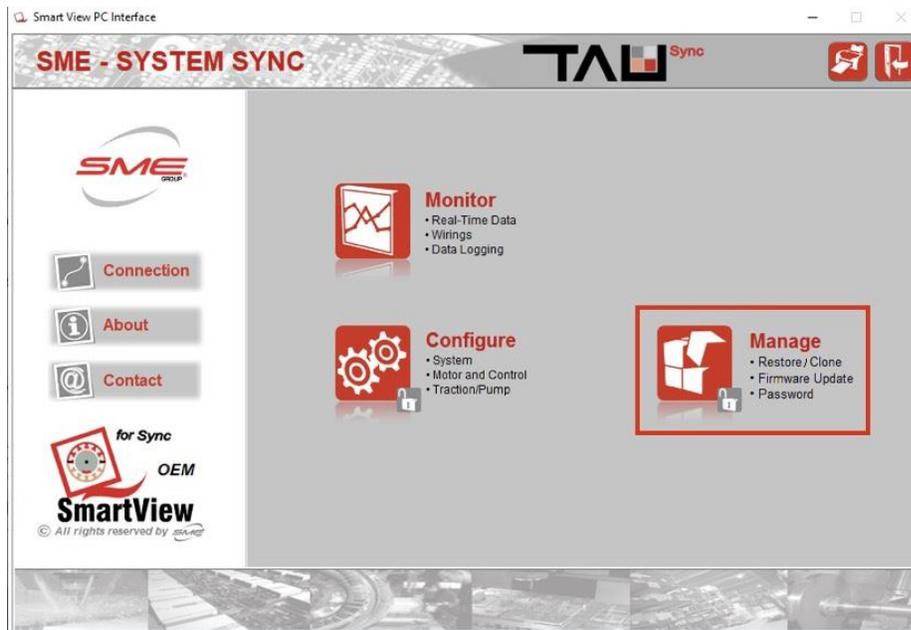
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Installing a New Clone File on HyPer-Drive Controllers

Please be sure the spin sensor has been commissioned in your new clone file before use (see [Important Note on Motor Calibration!](#))

Home – Manage: After establishing a connection between your controller and Personal Computer (PC), click **Manage** on the **Home** screen of SmartView.



Manage – Clone: To overwrite the existing Clone file that is on your Controller, click the icon with an arrow pointing to the PC and Controller. It is best to [upload and save](#) the existing file before you overwrite it.

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Manage – Clone – To Controller: To load a Clone file to your computer, navigate to the file that you saved on your computer. Saving a clone on your desktop is an easily accessible option, then you can click the Desktop Icon to access .clon type files saved on your desktop. Select the clone file you wish to install on your controller. Then click OK.

