



1336 FORCE AC Drive User Manual

This document provides new and updated material for the 1336 FORCE Adjustable Frequency AC Drive User Manual, publication 1336 FORCE-5.12, dated September, 1998. **Please place this document with your manual for future reference.**

HIM Upload/Download Errors

The following information describes the possible errors that can be encountered during a HIM Upload/Download procedure.

HIM Upload/Download Errors

Fault Name	Error Displayed	Probable Cause	Action
HIM -> Drive	ERROR 1	The HIM calculated a checksum for the file to be downloaded, then checked the EEPROM checksum of the download. The checksums did not match, indicating the file stored in the HIM is invalid and the download was not successful.	Upload a valid, uncorrupted file from the source drive and then repeat the download.
	ERROR 2	The number of parameters in the HIM file is different than the number of parameters in the drive file. The smaller of the two numbers is the number of parameters downloaded. The last downloaded parameter number is displayed.	Verify that the correct file is being downloaded to the correct drive, then press the Enter key. Manually reprogram parameters with numbers higher than the last number downloaded or whose values were incorrect.
	ERROR 3	The file in the HIM is for a different type of drive than the drive to which it is connected (i.e. 1336 FORCE file to 1336 IMPACT drive). Downloads can only occur between like drive types.	None - Download not allowed.
	ERROR 4	The value just transferred to the drive is an illegal value (out of range, too high or too low) for the parameter.	Record the parameter number displayed and then press Enter to continue the download. Manually reprogram all recorded parameters after the download is complete.
	ERROR 5	The download was attempted while the drive was running.	Stop the drive and repeat the download attempt.
	ERROR 6	The file in the HIM is for a different HP or voltage drive than the drive to which it is connected (i.e. 1336 FORCE 10 HP file to 1336 FORCE 15 HP drive).	If the download is desired, press the Enter key. If not desired, press the ESCape key to end the download
Drive -> HIM	ERROR 1	The HIM calculated a checksum as the file was uploaded and compared it to the HIM file checksum stored after the upload. The checksums did not match, indicating the upload was not successful and the HIM file is now corrupted.	Repeat the Upload.

Motor Control Board (v6.xx)

The following changes should be noted if a v6.xx Motor Control Board is being used.

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The table has been updated to include v6.xx of the Motor Control Board. A note was added to v5.xx of the Standard Adapter Board.

MOTOR CONTROL BOARD

	v1.xx	v2.xx	v3.xx	v5.xx/6.xx
STANDARD ADAPTER BOARD	v1.xx	Not Compatible	Compatible	Compatible with exception: <ul style="list-style-type: none"> ✘ Drive Comm #9-19 non-linkable. ✘ Drive Comm Tx/Rx #14-19 max value 219. ✘ Torque Stop Configuration #58 not available. ✘ Service Factor #94 not available. ✘ Feedback Device Type #150 mode 7 not available. ✘ Calculated Torque #267 not available. ✘ Precharge Timeout #225 min value 0
	v3.xx	Not Compatible	Compatible with exception: <ul style="list-style-type: none"> ✘ Torque Stop Configuration #58 non-functional. ✘ Service Factor #94 non-functional. ✘ Feedback Device Type #150 mode 7 non-functional. ✘ Calculated Torque #267 non-functional. 	Compatible with exception: <ul style="list-style-type: none"> ✘ V3.04 VP must be used with V3.03 AP and V3.03 Language or higher for B800 'H Frame' drive support. ✘ Perunit Motor Current #185 not available. ✘ Perunit Motor Voltage #186 not available. ✘ Transistor Diagnostics #257 bit 12 not available. ✘ Iq Rate Limit #181 max value 30% ✘ Motor Overload Select #92 min value 150%. ✘ Motor Poles #233 max value 12. ✘ Base Motor Speed #229 max val 6000.
	v4.xx	Not Compatible	Compatible with exception: <ul style="list-style-type: none"> ✘ Torque Stop Configuration #58 non-functional. ✘ Service Factor #94 non-functional. ✘ Feedback Device Type #150 mode 7 non-functional. ✘ Calculated Torque #267 non-functional. 	Compatible with exception: <ul style="list-style-type: none"> ✘ V3.04 VP must be used with V4.02 SA and V4.02 Language or higher for B800 'H Frame' drive support. ✘ V5.xx VP must be used with V4.02 AP and V4.02 Language or higher for B800 'H Frame' drive support. ✘ Perunit Motor Current #185 not available. ✘ Perunit Motor Voltage #186 not available. ✘ Transistor Diagnostics #257 bit 12 not available. ✘ Iq Rate Limit #181 max value 30% ✘ Motor Overload Select #92 min value 150%. ✘ Motor Poles #233 max value 12. ✘ Base Motor Speed #229 max valu 6000.
	v5.xx	Not Compatible	Compatible with exception: <ul style="list-style-type: none"> ✘ Torque Stop Configuration #58 non-functional. ✘ Service Factor #94 non-functional. ✘ Feedback Device Type #150 mode 7 non-functional. ✘ Calculated Torque #267 non-functi. ✘ Perunit Motor Curr #185 non-funct. ✘ Perunit Motor Volt #186 non-funct. ✘ Transistor Diag. #257 bit 12 non-funct. 	Compatible with exception: <ul style="list-style-type: none"> ✘ V3.04 VP MUST be used with V3.03 AP and V3.03 Language or higher for B800 'H Frame' drive support. ✘ Calculated Torque #267 non-functi. ✘ Perunit Motor Curr #185 non-funct. ✘ Perunit Motor Volt #186 non-funct. ✘ Transistor Diag. #257 bit 12 non-funct.

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 GPT information does not apply.

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 Important note added to “Drive Link Baud Rate” description.

<p>Drive Link Baud Rate [D2D Baud Rate]</p> <p>This word parameter specifies the baud rate used on the drive-to-drive link (CAN) communication interface as follows: 00H = 125K baud 01H = 250K baud 02H = 500K baud</p> <p>Important: If a v6.xx drive is added to the drive link that has v5.xx or less, it will only operate at 125k baud. If all drives on the drive link are v6.xx, it can operate at 250k and 500k baud.</p>	<table border="1"> <tr> <td>Parameter Number</td> <td>10</td> </tr> <tr> <td>Parameter Type</td> <td>Sink</td> </tr> <tr> <td>Display Units</td> <td>Kbaud</td> </tr> <tr> <td>Drive Units</td> <td>None</td> </tr> <tr> <td>Factory Default</td> <td>0</td> </tr> <tr> <td>Minimum Value</td> <td>0</td> </tr> <tr> <td>Maximum Value</td> <td>2</td> </tr> </table>	Parameter Number	10	Parameter Type	Sink	Display Units	Kbaud	Drive Units	None	Factory Default	0	Minimum Value	0	Maximum Value	2
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Parameter Type	Sink														
Display Units	Kbaud														
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