

Date : 2015/10/20	Release Notes for Lightning 0.185A	Author: Wen-Ching Chung
Doc. No. : LRNE 0.185A		Reviewer:
		Approver:
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Release Date: Oct. 20, 2015

This document is to inform users that an official software/firmware is released for the mega-fabs/HiWIN D-series servo drives. It is listed mainly according to firmware models, which are applicable for specific product range. All firmware models except DD MDP are upgraded.

1. Version Numbers

Name	No.
Lightening User's Interface	0.185A

MDP firmware models	No.
D1	0.236
D2	0.039
D1N	0.810
D1COE	0.316
D2COE	0.115
D1NCOE	0.515
DD	0.609

2. D1

- The following changes are made to the drive with D1 MDP:

Item #	Ref #	Description
1	M322	Fix and prohibit setting negative values of Speed, Acc, and Dec in performance center.
2	M339	Modify scaling range of emulated encoder output.
3	M265	Fix display problem of advanced view while performing TD function in auto phase center.
4	M311	Fix problem of homing process when home offset is unequal to 0.
5	M266	Fix synchronous problem of index input and emulated index output after performing TD function in auto phase center.
6	M378	Support Parameter_ver. 3.4 Add support for new published motors of TMRW-series. There are totally 10 motor model names. Modify motor parameters of TMYAA and TMYA5.
7	M377	Fix display problem of time log in errors and warnings log.

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8	M391	Fix display problem of auto tune function in action page of LCD.
9	M390	Fix order of functions in action page of LCD.
10	M380	Fix functional problem of hardware limits in position mode.
11	M232	Fix problem of homing process for special case.
12	M405	Fix display problem of physical values in LCD. Fix problem of setting parameters in LCD, including enumerated-type parameters.
13	M398	Fix problem of I/O invert function in LCD.
14	M385	Fix phase initialization problem of using SW method 1 for linear motor.

3. D2

- Include item number 1, 2, 4, 7, 9, 10 of the drive with D1 MDP.
- The following changes are also made to the drive with D2 MDP:

Item #	Ref #	Description
1	M181	Add support of D-frame drive for 2KW motor.
2	M336	Enhance force efficiency of motor with the 9th bit of motor model number 5.
3	M365	Fix display problem of homing setting page for motor with the 9th bit of motor model number 4.
4	M344	Fix problem of homing process for motor with the 9th bit of motor model number 4.
5	M368	Fix display problem of parameters in quick view for motor with the 9th bit of motor model number 4.
6	M367	Fix enable problem of power cycle on drive for motor with the 9th bit of motor model number 6.
7	M366	Remove D2 MDP 0.038 in HMI.
8	M397	Fix software enable problem after occurring encoder error.
9	M383	Add support of HIWIN17M encoder for AC motor.
10	M388	Fix display problem of physical value for serial encoder in LCD.
11	M399	Modify number of current effective value in common physical values.
12	M404	Fix display problem and modify unit of physical values in LCD. Fix problem of setting parameters, including enumerated-type parameters.
13	M371	Fix homing problem of AC motor with serial encoder after setting home offset.
14	M386	Fix mega-ulink communication problem of Lightening after resetting D2T drive.
15	M343	Fix display problem of W16 warning message in LCD for motor with the 9th bit of motor model number 4.
16	M422	Fix default problem of speed after reselecting motor for drives supporting the 9th bit of motor model number 5.

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17	M439	Fix display problem of physical values for serial encoder in HMI for D2 drive with Modbus.
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4. D1N

- Include item number 3, 5, 6, 10, 14 of the drive with D1 MDP.
- The following change is also made to the drive with D1N MDP:

Item #	Ref #	Description
1	M346	Fix problem of loading PRM file for motors with the 9th bit of motor model number 6 and Nikon encoder.
2	M354	Add support of stop motion and dual loop objects for drives with Modbus.
3	M369	Fix problem of encoder setting page for motor with Nikon encoder.
4	M396	Fix default values of Acc, Dec, and Dec kill for motor with Nikon encoder.
5	M379	Fix problem of saving PRM file for motors with the 9th bit of motor model number 6 and Nikon encoder.
6	M285	Fix encoder problem after drive power cycle, when driving motors with Nikon encoder.
7	M384	Add support of BiSS linear encoder.
8	M407	Fix mega-ulink communication problem.
9	M417	Fix display problem of error message of over voltage.
10	M124	Fix problem of loading parameters by Lightning HMI.

5. D1COE

- Include item number 1, 3, 5, 6, 7, 14 of the drive with D1 MDP.
- Include item number 3 of the drive with D2 MDP.
- The following changes are also made to the drive with D1COE MDP:

Item #	Ref #	Description
1	M414	Fix enable problem of linear motor after drive power cycle.
2	M415	Fix latching problem of digital input object (0x60FD) when motor is disabled.
3	M431	Fix problem of enabling via host controller after under voltage error occurs.

6. D2COE

- Include item number 1, 7 of the drive with D1 MDP.
- Include item number 1, 2, 3, 4, 5, 6, 8, 9, 10, 11 of the drive with D2 MDP.
- Include item number 2, 3 of the drive with D1COE MDP.
- The following changes are also made to the drive with D2COE MDP:

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Item #	Ref #	Description
1	M355	Fix display problem of encoder setting page for motor with the 9th bit of motor model number 3 and 4.
2	M375	Fix problem of home setting via host controller for motor with the 9th bit of motor model number 4.
3	M366	Remove D2COE MDP 0.114 in HMI.

7. D1NCOE

- Include item number 3, 5, 6, 14 of the drive with D1 MDP.
- Include item number 1, 3, 4, 5, 6, 7, 10 of the drive with D1N MDP.
- Include item number 2, 3 of the drive with D1COE MDP.
- The following change is also made to the drive with D1NCOE MDP:

Item #	Ref #	Description
1	M376	Fix problem of version object (0x1018:03).

8. DD

- Include item number 3 of the drive with D1 MDP.
- Include item number 10 of the drive with D1N MDP.

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