

RELEASE NOTE

MODEL	H2017 H2515 M0609 M0617 M1013 M1509 A0509 A0509s A0912 A0912s	
RELEASE DATE	2023-02-15 (February 15, 2023)	
ALIAS	V2.10.1 (GV02100100)	
SOFTWARE VERSION	Main (DRCF, DRSC & DART-Platform)	GF02100100 (NEW)
	Safety	M&H: GD02100100 (NEW) A: GD12100100 (NEW)
	Inverter	M&H: GA02100100 (NEW) A: GA12100100 (NEW)
	SVM	GI02100100 (NEW)
	DART-Studio	V2.10.1 (NEW)
	DART-Vision	V1.1
	WCI & Skill	V2.0
CHANGES NOTE	<p>Be sure to read the below precautions before proceeding update.</p> <p>[New Features]</p> <ol style="list-style-type: none"> Added feature to enable Power On and Off operation via Normal I/O setting Added an automatic acceleration feature to the M-series (Except for M0609) (Automatically on/off when setting Tool Weight to over-weight or running 'set_auto_acceleration' DRL command) Supported On-site Calibration V2 (requires DART Studio V2.10.1(or higher) and new On-site Calibration Kit) <p>[Improvements]</p> <ol style="list-style-type: none"> Compensated the slight drift when performs Teach Pendant direct teaching button in A-series Improved the vibration phenomenon when the robot stops due to excessive deceleration when runs 'servoj' and 'servol' DRL commands <p>[Correction]</p> <p>Corrected below error(s):</p> <ol style="list-style-type: none"> DART Studio > inverter setting > H-series gravity correction constant check 	

	<p>box malfunction on the JTS calibration screen</p> <p>2. Intermittent error that the safety output was repeatedly high and low when using the safety zone</p> <p>3. Error that Network IP setting value is reset Intermittently</p> <p>4. Positional error in H-Series after Servo on/off or Homing</p> <p>5. Error returning invalid value on 'ikin' DRL command</p> <p>6. Error when some JTS Calibration values disappeared or changed to incorrect value after software update (applies when updating to V2.10.1 version or later from previous software version)</p>																						
PRECAUTIONS	<p><Common></p> <p>※ All software must be installed properly as described in SOFTWARE VERSION to guarantee the normal operation of robot.</p>																						
	<p><V2.10.1></p> <p>※ Updating from H-Series to V2.10.1 version can cause problems in maintaining JTS calibration values in the following situations, so software must be updated to V2.10.1(or later) after updating the same version.</p>																						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">No</th> <th style="width: 20%;">Target</th> <th style="width: 20%;">Software version</th> <th style="width: 50%;">JTS Calibration value problem after update</th> </tr> </thead> <tbody> <tr> <td rowspan="2" style="text-align: center;">1</td> <td>Controller Box</td> <td>V2.10.1 Earlier</td> <td rowspan="2" style="text-align: center;">Problem occurs</td> </tr> <tr> <td>Manipulator</td> <td>V2.10.1</td> </tr> <tr> <td rowspan="2" style="text-align: center;">2</td> <td>Controller Box</td> <td>V2.10.1</td> <td rowspan="2" style="text-align: center;">Problem occurs</td> </tr> <tr> <td>Manipulator</td> <td>V2.10.1 Earlier</td> </tr> <tr> <td rowspan="2" style="text-align: center;">3</td> <td>Controller Box</td> <td>V2.10.1 Earlier</td> <td rowspan="2" style="text-align: center;">No problem occurs</td> </tr> <tr> <td>Manipulator</td> <td>(Same version)</td> </tr> </tbody> </table>	No	Target	Software version	JTS Calibration value problem after update	1	Controller Box	V2.10.1 Earlier	Problem occurs	Manipulator	V2.10.1	2	Controller Box	V2.10.1	Problem occurs	Manipulator	V2.10.1 Earlier	3	Controller Box	V2.10.1 Earlier	No problem occurs	Manipulator	(Same version)
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<p>※ When updating from V2.9 or earlier to V2.9 (or later), or when restoring from V2.9 or later, JTS Calibration must be performed again. (However, this is not necessary for updating to V2.10.1 or later version.)</p> <p>※ V2.9.4 (or later) Robot State is changed, if the user task program uses Robot State, the user task program should be corrected following new Robot State value</p> <p>※ V2.9 (or later) Automatic migration is not supported about acceleration</p>																							

unit change (unified to mm/s²). Previously saved acceleration values(if unit was m/s²) should be corrected after software update.

※ We found below software versions cannot update SVM(Smart Vision Module) software to V2.8 or later version by Integration Software Update feature.

- V2.7.1.2
- V2.7.2
- V2.7.2.1
- V2.7.3

In this case, there are three ways to update SVM software:

- Using DART Vision V1.0 (V2.8 or later version SVM update zip file, downloadable from homepage)
- Using DART Studio V2.0.1 or earlier version (V2.8 or later version SVM update zip file, downloadable from homepage)
- Using DART Platform for Windows (V2.8 or later version dsp file)

Homepage address: <https://robotlab.doosanrobotics.com/en/Index>

※ V2.7.1 (and later) SW is released only .dsp file. To update using .dsp file, SW should be updated to V2.7.

※ V2.7 (and later) SW supports M-Series, H-Series & A-Series. V2.7 SW can be installed on M-Series, H-Series and A-Series. However, it is not possible to mix the robot of the M and H and A series with a single controller installed V2.7 SW. To use other series of robots, 'Clean Database' must be performed according to the Controller & Robot Compatibility Error screen.

※ Compatibility of software version and Workcell Item(WCI) version, and related WCI version information is as follows: (WCI in use is(are) automatically updated after SW update.)

SW version	WCI version can be installed	WCI version change after SW update
V2.7.3 & newer	Not supported Support only WCIs and	Previously released WCIs and Skills are

		Skills build by App Builder	deprecated
	V2.7 & V2.7.1 & V2.7.1.2 & V2.7.2 & V2.7.2 & V2.7.2.1	WC11.2 (dr3)	WC11.2
	V2.6.3	WC11.1.1 (dr3)	(no version change)
	M2.6 & M2.6.1 & M2.6.1.1	WC11.1.1 (dr3)	WC11.1
	M2.5	WC11.1 (dr3.240)	WC11.1
	M2.4.1FIX1	WC11.1 (dr3.240)	WC11.1
	M2.4.1	WC11.0	WC11.0
	M2.4	WC11.0	WC11.0
	M2.3 & older	WC11.0	WC11.0