

Delta Error Codes

Error Code	Description	<u>Notes Added for Explanation</u> X = Positive to REAR // Y = Positive to LEFT Z = Positive UP // A = Positive CW
1	File does not exist.	
2	1.No string is found. 2. No object to process (the total line number is zero).	
3	The second parameter of API SNC_set_process_data is zero.	
4	The start line exceeds the total line number.	
5	DDL version is wrong.	
6	Error / warning occurs when the cutting line is too short.	
7	Use goto command but cannot find the corresponding tag.	
8	Use goto command but the tag is duplicated.	
9	The set value of SNC_Append_Group exceeds the range.	
10	The set value of SNC_Append_Group is duplicated.	
11	SNC group No. is not specified.	
13	Fail to create thread.	
101	Duplicate definition of variable A.	
102	Duplicate definition of variable B.	
103	Duplicate definition of variable C.	
104	Duplicate definition of variable E.	
105	Duplicate definition of variable F.	
106	Duplicate definition of variable G.	
107	Duplicate definition of variable H.	
108	Duplicate definition of variable I.	
109	Duplicate definition of variable J.	
110	Duplicate definition of variable K.	
111	Duplicate definition of variable L.	
112	Duplicate definition of variable M.	
113	Duplicate definition of variable P.	
114	Duplicate definition of variable Q.	
115	Duplicate definition of variable R.	
116	Duplicate definition of variable S.	
117	Duplicate definition of variable T.	
118	Duplicate definition of variable U.	
119	Duplicate definition of variable V.	
120	Duplicate definition of variable W.	
121	Duplicate definition of variable X.	
122	Duplicate definition of variable Y.	
123	Duplicate definition of variable Z.	
201	Variable D is a negative number.	

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202	Variable F is a negative number.	
203	Variable G is a negative number.	
204	Variable H is a negative number.	
205	Variable L is a negative number.	
206	Variable M is a negative number.	
207	Variable P is a negative number.	
301	Variable range is not within A to Z.	
302	Unknown variable	Default code for unspecified error
303	Unknown G code	
304	Unknown function starting with A.	
305	Unknown function starting with C.	
306	Unknown function starting with E.	
307	Unknown function starting with F.	
308	Unknown function starting with L.	
309	Unknown function starting with P.	
310	Unknown function starting with R.	
311	Unknown function starting with S.	
312	Unknown function starting with T.	
313	Unknown operator	
314	Unknown operation	
315	Unknown operator starting with A	
316	Unknown operator starting with E	
317	Unknown operator starting with G	
318	Unknown operator starting with L	
319	Unknown operator starting with M	
320	Unknown operator starting with N	
321	Unknown operator starting with O	
322	Unknown operator starting with X	
330	Unknown function	
331	Not supporting G10	
403	M code exceeds the range; Valid range:0 ~ 999.	
405	Access variable # exceeds the range.	
406	1. Tool No. is not set when executing tool length compensation. 2. Tool No. is not set when executing tool radius compensation.	
408	Access variable @ exceeds the range.	

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409	The set value of SNC_Start_Process_Line exceeds the G code total line numbers.	
501	The value of the feed cutting depth Q cannot be smaller than or equals 0.	
502	The value of the speed S cannot be smaller than 0.	
503	The value of the tool T cannot be smaller than 0.	
504	Repeatedly set functional group within one G Code.	Used G91 and G90 on same line error. Put on 2 lines in Notepad, cut paste into MDI, OK
511	Scaling value has to set with two axes.	
512	Scaling point is set, but the scaling value is not specified.	
513	Scaling point is set, but the scaling value is not specified.	
514	Scaling point is set, but the scaling value is not specified.	
516	Mirror axis is not specified.	
522	Rotation angle is not specified.	
530	The repeated count of the peck drilling cycle is negative.	
602		
604	Denominator is zero.	
605	Parameter of the pow function is wrong.	
606	Formula without 'I' or 'J' symbo. The different SNC_Machine_Type setting has different required symbo.	CCAM had a (instead of a / causing this error. Edited to proper character and ran ok.
607	Formula of atan without 'I' or 'J' symbo. The different SNC_Machine_Type setting has different required symbo.	
608	Parameter of fomula acos exceeds the range.	
609	Parameter of fomula asin exceeds the range.	
610	Parameter of fomula ln(log) is wrong.	
611	Parameter of fomula sqrt is wrong.	
612	Wrong numeric format, such as X\$\$\$\$. This error usually covered by ERR_GCODE_NO_DIGITS_FOUND_WHERE_REAL_NUMBER_SHOULD_BE	
613	Failed to read value or the vaule is not available.	
614	The function of sscanf return an error. This error usually caused by wrong string format.	
615	There is no "goto" and "then" sentence after command "if".	
616	G code starts with "N" but without specified a line number.	
617	There is no "then" sentence after command "if".	
618	Incorrect gramma of "for" loop command. Without "For" sentence before "Next".	
619	Too many for loop layer.	
620	Incorrect initial value of the "for" loop command.	
621	Incorrect format of the "for" loop command.	

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622	Incorrect grammar of "for" loop command. Amount of "For" and "Next" is not matched.	
623	Incorrect format of the "if" command.	
624	Without "End_While" symbo when using the "exit" command to end of the "while" loop.	
625	Using "Exit" beyond a loop command.	
626	Index of @ exceeds the range.	
627	Index of # exceeds the range.	
628	Without "End_While" symbo in the "while" loop command.	
630	Brackets symbo not matched. Right brackets more than left brackets.	
631	Brackets symbo not matched. Left brackets more than right brackets.	
701	SNC initialization failure.	
702	Parameter cannot be accessed during processing.	
703	Axis number exceeds the range; valid range: 1 ~ 9.	
704	Axis number is repeatedly used.	
706	Total axis amount in use is zero.	
707	The axis amount used by G Code is larger than the set value of SNC_Axes.	
708	Incorrect setting of macro mode.	
709	CALLBACK function is not specified.	
710	Incorrect setting of gear ratio	
711	E-gear ratio is zero.	
713	G00 feed speed is zero.	
715	Incorrect setting of work plane.	
716	EtherCAT master is initializing.	
723	Layer of subroutine exceeds four layers.	
727	Incorrect setting of G02 and G03 parameters.	
728	G02 and G03 use the wrong work plane (G17~G19).	
729	G02 and G03 cannot calculate coordinate.	
730	Axis amount used by G02 and G03 is over 3 axes.	
731	Processing function is not applicable when the system is in process.	
732	SNC_Tool_Max parameter setting exceeds the range; valid range: 1~100.	
733	Tool radius compensation only supports X-Y plane.	
734	Tool radius compensation and helical interpolation cannot be used in the same time.	
735	The path of tool radius compensation cannot be calculated.	
737	The first motion of tool radius compensation cannot be G02 or G03.	

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738	Before the tool radius compensation completes, macro function cannot be executed.	
741	SNC memory allocating failure.	
742	Use the User Macro function, but the CALLBACK function is not specified.	
761	Incorrect setting of drilling mode	
762	The CALLBACK function is not set in drilling mode.	
763	Drilling cycle mode is not supported.	
770	Arc command (G02 or G03) without any of IJKR parameter.	
771	The value of R in the arc command (G02 or G03) is not reasonable.	
772	Tool radius compensation occurs error between linear to arc command.	
773	Tool radius compensation occurs error between arc to linear command.	
774	Tool radius compensation occurs error between arc to arc command.	
775	Tool radius compensation has interfere issue.	
802	Incorrect setting of gear ratio	
803	Incorrect setting of SNC axis number	Rotary - CCAM put "B0" in gcode. Deleted the B0... gcode line, Ran Ok.
805	Incorrect tool radius value (too big or too small).	
806	Use SNC_Check_Tool_No parameter, but the set value of SNC_Tool_Max is zero.	
807	Wrong direction (-1, 1)	
809	Incorrect unit setting	
810	T code group number in the same line exceeds the range (use '/' to separate).	
811	At least one of the axis is not activated.	
812	Incorrect of the backlash setting.	
901	Device cannot be 04PI Mode1.	
902	Device cannot be RM module.	
903	This station No. is unable to find the device.	
904	Unknown device	
908	Servo Error	Limit light on - Any Axis - move off limit goes away on Run - or - switch to any screen then back
909	GCode Error	
910	Software limit is triggered.	
911	Bottom layer API returns error; please access parameter SNC_API_ErrNo.	
1001	Group number is not set.	
1002	Operation group exceeds the setting range.	
1004	Wrong card type	

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2000	Software limit is triggered.	
2001	The softlimit in positive direction of the X axis is activated.	X zeroed to far back. Move X forward, rezero.
2002	The softlimit in positive direction of the Y axis is activated.	Y zeroed to far left. Move Y right, rezero.
2003	The softlimit in positive direction of the Z axis is activated.	Z zeroed to high. Lower Z, rezero.
2004	The softlimit in positive direction of the A axis is activated.	
2005	The softlimit in positive direction of the B axis is activated.	
2006	The softlimit in positive direction of the C axis is activated.	
2007	The softlimit in positive direction of the U axis is activated.	
2008	The softlimit in positive direction of the V axis is activated.	
2009	The softlimit in positive direction of the W axis is activated.	
2011	The softlimit in negative direction of the X axis is activated.	X zeroed to far forward. Move X back, rezero.
2012	The softlimit in negative direction of the Y axis is activated.	Y zeroed to far right. Move Y left, rezero.
2013	The softlimit in negative direction of the Z axis is activated.	Z can't move LOW enough, Move SPINDLE DOWN
2014	The softlimit in negative direction of the A axis is activated.	
2015	The softlimit in negative direction of the B axis is activated.	
2016	The softlimit in negative direction of the C axis is activated.	
2017	The softlimit in negative direction of the U axis is activated.	
2018	The softlimit in negative direction of the V axis is activated.	
2019	The softlimit in negative direction of the W axis is activated.	
9999	Security authentication failed.	
30001	Failed to start the SNC channe 1. The X axis is still in motion.	
30002	Failed to start the SNC channe 1. The Y axis is still in motion.	
30003	Failed to start the SNC channe 1. The Z axis is still in motion.	
30004	Failed to start the SNC channe 1. The A axis is still in motion.	MPG enabled on screen - turn off
30005	Failed to start the SNC channe 1. The B axis is still in motion.	
30006	Failed to start the SNC channe 1. The C axis is still in motion.	
30007	Failed to start the SNC channe 1. The U axis is still in motion.	
30008	Failed to start the SNC channe 1. The V axis is still in motion.	
30009	Failed to start the SNC channe 1. The W axis is still in motion.	
30051	Failed to start the SNC channe 1. The X axis is not enabled.	
30052	Failed to start the SNC channe 1. The Y axis is not enabled.	
30053	Failed to start the SNC channe 1. The Z axis is not enabled.	
30054	Failed to start the SNC channe 1. The A axis is not enabled.	
30055	Failed to start the SNC channe 1. The B axis is not enabled.	
30056	Failed to start the SNC channe 1. The C axis is not enabled.	
30057	Failed to start the SNC channe 1. The U axis is not enabled.	

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30058	Failed to start the SNC channe 1. The V axis is not enabled.	
30059	Failed to start the SNC channe 1. The W axis is not enabled.	
30061	Failed to start the SNC channe 1. All of the R register refers to the M function must be deactivated.	
30062	Failed to start the SNC channe 1. All of the R register refers to the T function must be deactivated.	
30063	Failed to start the SNC channe 1. The M code index exceeds the range.	
30064	Failed to start the SNC channe 1. The T code index exceeds the range.	
30070	Failed to start the SNC channe 1. Motion mode of servo axes are incorrect.	
30080	Failed to start the SNC channe 1. Axes are processing the homing function.	
30101	Failed to start the SNC channe 2. The X axis is still in motion.	
30102	Failed to start the SNC channe 2. The Y axis is still in motion.	
30103	Failed to start the SNC channe 2. The Z axis is still in motion.	
30104	Failed to start the SNC channe 2. The A axis is still in motion.	
30105	Failed to start the SNC channe 2. The B axis is still in motion.	
30106	Failed to start the SNC channe 2. The C axis is still in motion.	
30107	Failed to start the SNC channe 2. The U axis is still in motion.	
30108	Failed to start the SNC channe 2. The V axis is still in motion.	
30109	Failed to start the SNC channe 2. The W axis is still in motion.	
30151	Failed to start the SNC channe 2. The X axis is not enabled.	
30152	Failed to start the SNC channe 2. The Y axis is not enabled.	
30153	Failed to start the SNC channe 2. The Z axis is not enabled.	
30154	Failed to start the SNC channe 2. The A axis is not enabled.	
30155	Failed to start the SNC channe 2. The B axis is not enabled.	
30156	Failed to start the SNC channe 2. The C axis is not enabled.	
30157	Failed to start the SNC channe 2. The U axis is not enabled.	
30158	Failed to start the SNC channe 2. The V axis is not enabled.	
30159	Failed to start the SNC channe 2. The W axis is not enabled.	
30161	Failed to start the SNC channe 2. All of the R register refers to the M function must be deactivated.	
30162	Failed to start the SNC channe 2. All of the R register refers to the T function must be deactivated.	
30163	Failed to start the SNC channe 2. The M code index exceeds the range.	
30164	Failed to start the SNC channe 2. The T code index exceeds the range.	
30170	Failed to start the SNC channe 2. Motion mode of servo axes are incorrect.	
30180	Failed to start the SNC channe 2. Axes are processing the homing function.	

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30201	Failed to start the SNC channe 3. The X axis is still in motion.	
30202	Failed to start the SNC channe 3. The Y axis is still in motion.	
30203	Failed to start the SNC channe 3. The Z axis is still in motion.	
30204	Failed to start the SNC channe 3. The A axis is still in motion.	
30205	Failed to start the SNC channe 3. The B axis is still in motion.	
30206	Failed to start the SNC channe 3. The C axis is still in motion.	
30207	Failed to start the SNC channe 3. The U axis is still in motion.	
30208	Failed to start the SNC channe 3. The V axis is still in motion.	
30209	Failed to start the SNC channe 3. The W axis is still in motion.	
30251	Failed to start the SNC channe 3. The X axis is not enabled.	
30252	Failed to start the SNC channe 3. The Y axis is not enabled.	
30253	Failed to start the SNC channe 3. The Z axis is not enabled.	
30254	Failed to start the SNC channe 3. The A axis is not enabled.	
30255	Failed to start the SNC channe 3. The B axis is not enabled.	
30256	Failed to start the SNC channe 3. The C axis is not enabled.	
30257	Failed to start the SNC channe 3. The U axis is not enabled.	
30258	Failed to start the SNC channe 3. The V axis is not enabled.	
30259	Failed to start the SNC channe 3. The W axis is not enabled.	
30261	Failed to start the SNC channe 3. All of the R register refers to the M function must be deactivated.	
30262	Failed to start the SNC channe 3. All of the R register refers to the T function must be deactivated.	
30263	Failed to start the SNC channe 3. The M code index exceeds the range.	
30264	Failed to start the SNC channe 3. The T code index exceeds the range.	
30270	Failed to start the SNC channe 3. Motion mode of servo axes are incorrect.	
30280	Failed to start the SNC channe 3. Axes are processing the homing function.	
30301	Failed to start the SNC channe 4. The X axis is still in motion.	
30302	Failed to start the SNC channe 4. The Y axis is still in motion.	
30303	Failed to start the SNC channe 4. The Z axis is still in motion.	
30304	Failed to start the SNC channe 4. The A axis is still in motion.	
30305	Failed to start the SNC channe 4. The B axis is still in motion.	
30306	Failed to start the SNC channe 4. The C axis is still in motion.	
30307	Failed to start the SNC channe 4. The U axis is still in motion.	
30308	Failed to start the SNC channe 4. The V axis is still in motion.	
30309	Failed to start the SNC channe 4. The W axis is still in motion.	
30351	Failed to start the SNC channe 4. The X axis is not enabled.	

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30352	Failed to start the SNC channe 4. The Y axis is not enabled.	
30353	Failed to start the SNC channe 4. The Z axis is not enabled.	
30354	Failed to start the SNC channe 4. The A axis is not enabled.	
30355	Failed to start the SNC channe 4. The B axis is not enabled.	
30356	Failed to start the SNC channe 4. The C axis is not enabled.	
30357	Failed to start the SNC channe 4. The U axis is not enabled.	
30358	Failed to start the SNC channe 4. The V axis is not enabled.	
30359	Failed to start the SNC channe 4. The W axis is not enabled.	
30361	Failed to start the SNC channe 4. All of the R register refers to the M function must be deactivated.	
30362	Failed to start the SNC channe 4. All of the R register refers to the T function must be deactivated.	
30363	Failed to start the SNC channe 4. The M code index exceeds the range.	
30364	Failed to start the SNC channe 4. The T code index exceeds the range.	
30370	Failed to start the SNC channe 4. Motion mode of servo axes are incorrect.	
30380	Failed to start the SNC channe 4. Axes are processing the homing function.	
31000	Tool measurement failed, not detected in the allowable detection distance	
31001	Tool measurement failed, current tool number not equal spindle tool number (ex: Multi-head Drill)	
31002	Tool measurement failed, servo driver is not supported for tool measurement.	
31003	Servo drive does not support tool measurement function.	
31010	SNC failed to reset hardware since SNC is running	
31011	SNC failed to reset hardware since hardware can not be found.	

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[illegible]

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[illegible]

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[illegible]

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