8.4 INT ALARMS & WARNINGS

INT3001	No such token

Type： ALARM
Function： N/A
Description：
    1. The input data of a part program contains some illegal symbols or words.
    2. Correct the mistake.
    3. Press RESET to eliminate the warning message.

INT3002	Grammar error

Type： ALARM
Function： N/A
Description：
    1. The input data of a part program contains some grammatical mistakes.
    2. Correct the mistakes.
    3. Press RESET to eliminate the warning message.

INT3003	Out of memory

Type： ALARM
Function： N/A
Description：
    1. The MACRO program contains an over-complex representation, such as too many brackets.
    2. Modify the program to make it simpler or divide it into two blocks.
    3. Press RESET to eliminate the warning message.

INT3004	Execute node error

Type： ALARM
Function： N/A
Description：
    1. Some illegal formula is executed by the system.
    2. Press RESET to eliminate the warning message.

INT3005	Function error

Type： ALARM

Function： N/A

Description： 1.Some illegal function is being executed by the system (this situation usually does not happen when the system works normally).
2.The system is malfunctioning, please notify your supplier.

INT3006	Divided by 0

Type： ALARM

Function： N/A

Description： 1.Some denominator of the MACRO program is 0.
2.Modify the denominator to a number other than 0.
3.Press RESET to eliminate the warning message.

INT3007	Variable over range

Type： ALARM

Function： N/A

Description： 1.Some number of the variables (global or local variables) exceeds the number range allowed.
2.Modify the number of the variable that exceeds the range.
3.Press RESET to eliminate the warning message.

INT3008	Domain error

Type： ALARM

Function： N/A

Description： 1. Some domain error in the function of the MACRO program takes place. For example, the parameter of a square root (SQRT) is negative; or the two parameters of an arctangent (ATAN) are 0.
2. Change the domain value.
3. Press RESET to eliminate the warning message.

INT3010	Not allowable decimal point

Type： ALARM

Function： N/A

Description： 1. The digital part of the input address contains an illegal decimal.
2. Correct the digital part of the address.

INT3011	Word data over range

Type：　　ALARM
Function：　N/A
Description：　1.　The digital part of the input address exceeds the range allowed.
　　　　　　　2.　Correct the digital part of the address.
　　　　　　　3.　Press RESET to eliminate the warning message.

INT3012	Illegal MACRO parameter input

Type：　　ALARM
Function：　N/A
Description：　1.　Some incorrect parameters are used in MACRO programs (G, L, N, O, P).
　　　　　　　2.　Correct these parameters.
　　　　　　　3.　Press RESET to eliminate the warning message.

INT3013	Grammar error of comment

Type：　　ALARM
Function：　N/A
Description：

1.　Press RESET to eliminate the warning message.

2.　About the ungrammatical comment in part programs, the comment need to be /*……*/ in pairs when Pr.0042 is set to 0; the comment need to be (……) in pairs when Pr.0042 is set to 1.

3.　Modify the comment in part programs to make it follow the grammar rules.

INT3014	The argument is error in GET function

Type：　　ALARM
Function：　N/A
Description：

1.　Press RESET to eliminate the warning message.

2.　Apply ungrammatical GET command in part programs.

3.　Modify the GET argument in part programs to make it follow the grammar rules.

"

INT3100	Illegal G code

Type：　　ALARM
Function：　N/A
Description：　1.　The input data contains some illegal G code.
　　　　　　　2.　Delete the illegal G code.
　　　　　　　3.　Press RESET to eliminate the warning message.

INT3111	Lack of file name

Type： ALARM
Function： N/A
Description： 1. The input data lacks the file name to be called (P address is blank).
2. Add the file name to be called.
3. Press RESET to eliminate the warning message.

INT3112	Illegal file name

Type： ALARM
Function： N/A
Description： 1. The input data contains an illegal file name.
2. Correct the file name.
3. Press RESET to eliminate the warning message.

INT3113	file not found

Type： ALARM
Function： N/A
Description： 1. The file to be executed is not found in the system.
2. Establish or modify the file to be executed.
3. Press RESET to eliminate the warning message.

INT3114	End of file

Type： ALARM
Function： N/A
Description：

1. Press RESET to eliminate the warning message.

2. The finish codes, such as M30, M02, M99, are not included in the end of file.

3. Modify the end of file to make it follow the rules.

INT3121	Lack of sub return

Type： ALARM
Function： N/A
Description： 1. The sub-program lacks a command of returning to the main program.
2. Add a command of returning to the main program in the sub-program.
3. Press RESET to eliminate the warning message.

INT3122	**Program Overflow**

Type： ALARM
Function： N/A
Description： 1. The sum of sub-programs & MACRO levels exceeds the limit (8 levels).
2. Reduce levels.
3. Press RESET to eliminate the warning message.

INT3123	**MACRO Overflow**

Type： ALARM
Function： N/A
Description： 1. The number of MACRO levels exceeds the limit (4 levels).
2. Reduce MACRO levels.
3. Press RESET to eliminate the warning message.

INT3124	**MACRO underflow**

Type： ALARM
Function： N/A
Description：
1. Press RESET to eliminate the warning message.
2. Call MACRO program (G66) is not executed before Cancel MACRO program (G67) in part programs.
3. Modify the program to apply G66 before G67 to make it follow the rules.

INT3125	**Without lable**

Type： ALARM
Function： N/A
Description： 1. The label name does not exist.
2. Please confirm if the label name is correct.
3. Press RESET to eliminate the warning message.

INT3126	**Block not found**

Type： ALARM
Function： N/A
Description： 1. The block number does not exist.
2. Check if the block number exists in the program.
3. Press RESET to eliminate the warning message.

INT3128	Feedrate out of range

Type： ALARM

Function： N/A

Description： 1. Check if G94 & G95 are executed properly.
2. Check if F value of the feed rate is too large.
3. Press RESET to eliminate the warning message and modify the values of G94, G95, or F value.

INT3129	Illegal A command

Type： ALARM

Function： N/A

Description：
1. Press RESET to eliminate the warning message.

2. The command of executing linear angle function has some mistakes.

3. Modify the command of executing linear angle function to make it follow the rules.

INT3130	Coordinate error

Type： ALARM

Function： N/A

Description：
1. Press RESET to eliminate the warning message.

2. The related command of executing coordinate switch in part program has some mistakes.

3. Modify the command to make it follow the rules.

INT3131	Unknown plane

Type： ALARM

Function： N/A

Description：
1. Press RESET to eliminate the warning message.

2. The illegal coordinate plane is executed in part programs.

3. Modify the related command to make it follow the rules.

INT3132	Illegal radius

Type： ALARM

Function： N/A

Description： 1. When G02 & G03 arc cutting commands are applied, the terminal coordinates are not on the arc.
2. Check the coordinate values of the center, direction, and the terminal positions.
3. Press RESET to eliminate the warning message.

INT3133	Illegal A command in CAN CYCLE

Type： ALARM

Function： N/A

Description：

1. Press RESET to eliminate the warning message.
2. There is an illegal A command in G73 command in part programs.
3. Modify the command to make it follow the rules.

INT3140	Send TABLE1 error

Type： ALARM

Function： N/A

Description：

1. Press RESET to eliminate the warning message.

2. TABLE 1 has a sending error in the interpreter.

3. Reboot and execute the program.

INT3141	No free variables

Type： ALARM

Function： N/A

Description：

1. Press RESET to eliminate the warning message.

2. There is no free variable in the interpreter.

3. Reboot and execute the program.

INT3150	Insufficient data

Type： ALARM

Function： N/A

Description： 1. The data of G codes to be executed is insufficient (Ex. P, R, & Z of G10 are insufficient).
2. Supplement the data required.
3. Press RESET to eliminate the warning message.

INT3151	IP maintain error

Type： ALARM

Function： N/A

Description：

1. Press RESET to eliminate the warning message.

2. IP has maintenance error when executing G27, G28 and G30 command.

3. Modify the command to make it follow the rules.

INT3152	Run G27,G28,G29,G30 in CAN CYCLE

Type： ALARM

Function： N/A

Description： 1. The commands of G27, G28, G29, & G30 are executed in Canned Cycle.
2. First, cancel the G codes above in Canned Cycle, then execute them again.
3. Press RESET to eliminate the warning message.

INT3153	N0 such R point

Type： ALARM

Function： N/A

Description： 1. The number of the reference point input by G30 is incorrect.
2. Modify the number of the reference point.
3. Press RESET to eliminate the warning message.

INT3154	Illegal in CAN CYCLE

Type： ALARM

Function： N/A

Description： 1. There is some illegal action executed in Canned Cycle.
2. First, cancel the illegal action before re-executing the next command.
3. Press RESET to eliminate the warning message.

INT3155	Illegal profile path

Type： ALARM

Function： N/A

Description： 1. The profile path assigned in Canned Cycle is illegal (Ex. Over-cutting).
2. Modify the illegal profile path then execute the command again.
3. Press RESET to eliminate the warning message.

INT3156	Illegal G31 in compensation

Type： ALARM
Function： N/A
Description：
1. Press RESET to eliminate the warning message.
2. Do not execute G31 command in tool nose compensation mode.
3. Modify the G31 command to make it follow the rules.

INT3157	P code out of range

Type： ALARM
Function： N/A
Description：
1. Press RESET to eliminate the warning message.
2. P code is out of range in part programs.
3. Modify the P code in part programs to make it follow the rules.

INT3158	G10 L/E code out of range

Type： ALARM
Function： N/A
Description：
1. Press RESET to eliminate the warning message.
2. L/E code in G10 command is out of range.
3. Modify the codes in G10 command to make it follow the rules.

INT3160	DNC: Incorrect read sequence

Type： ALARM
Function： N/A
Description： 1. Check if there are any incorrect sub-programs or Skip Calling in the program.
2. Press RESET to eliminate the warning message and modify part programs.

INT3161	DNC: Loss data packet

Type： ALARM
Function： N/A
Description：
1. Press RESET to eliminate the warning message.
2. DNC RS232 lost data during transmission.
3. Please check if DNC RS232 connection is normal.

INT3162	DNC: Program buffer overflow

Type： ALARM

Function： N/A

Description： 1. Buffer area of the program exceeds the storage limit during the transmission of DNC RS232.
2. Whether or not the transmission is disconnected or loose
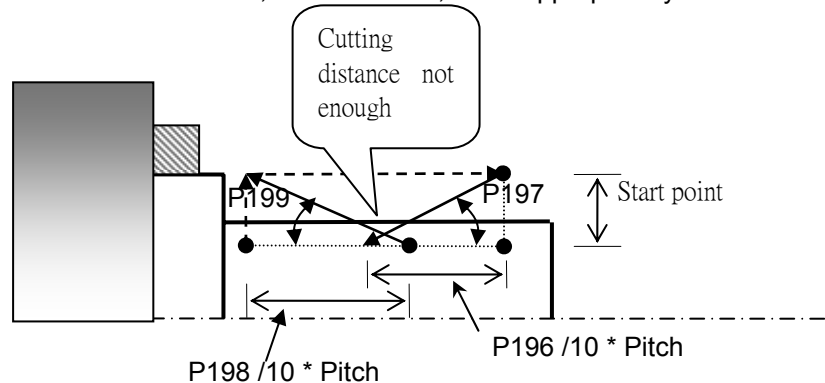3. Press RESET to eliminate the warning message.

INT3170	Cutting length in Z too short

Type： ALARM

Function： N/A

Description：

1. Press RESET to eliminate the warning message.

2. The ball screw canned cycle's length is too short in G78 command.

3. The cutting distance (Z direction) is too short.

4. The length of cutting down or cutting up is too long to have sufficient cutting distance.

5. Increase cutting distance, for example, G78 X_Z_F1→ increase the amount of Z.

6. Cancel the function of angular cutting down and up. For example, M37 enables angular cutting up, and M38 cancels this function. Please refer to the machine maker's manual.
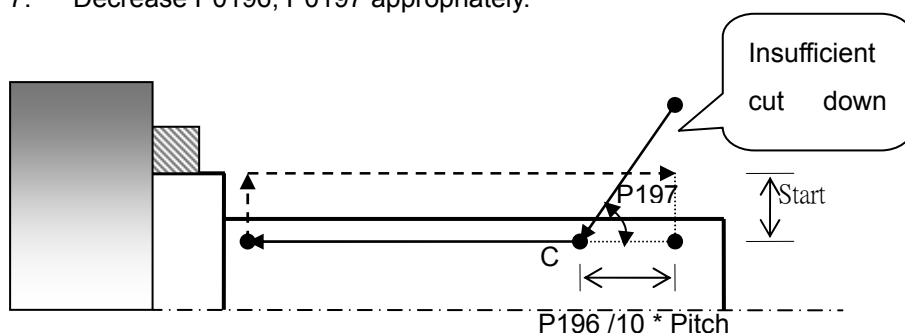
7. Decrease P196, P197 or P198, P199 appropriately.

INT3171	Cut down chamfer over range

Type： ALARM

Function： N/A

Description：

1. Press RESET to eliminate the warning message.

2. The screw canned cycle cut down chamfer of G78 is too big.

3. There is no sufficient cut down distance reserved when executing G78. (Pr.0196)

4. The cut down chamfer's angle (Pr.0197) is too big to have sufficient distance for cutting down.

5. Increase the cut down distance; in other words, increase the start point's position.

6. Cancel cut down chamfer function. For example, M37 enables angular cut down, and M38 cancels this function. (Please refer to the machine maker's manual)

7. Decrease P0196, P0197 appropriately.

INT3172	Cut up chamfer over range

Type： ALARM

Function： N/A

Description：

1. Press RESET to eliminate the warning message.

2. The screw canned cycle cut up chamfer of G78 is too big.
3. There is no sufficient cut up distance reserved when executing G78. (Pr.0198)
4. The cut up chamfer is too big (Pr.0199) to have sufficient cut up distance.
5. Increase cut up distance, in other words, increase the start point's position.
6. Cancel cut up chamfer function. For example, M39 enables angular cut up function, and M40 cancels this function. (Please to machine maker's manual.)
7. Decrease P0198 and P0199 appropriately.
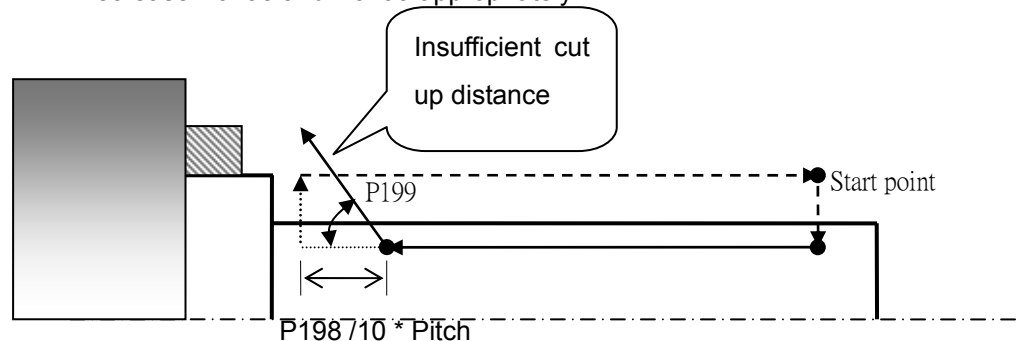
INT3180	Spindle C(H) address grammar error

Type： ALARM

Function： TI050011

Description： Modify the code related to spindle C(H) positioning in part programs to make it follow the grammar rules.

INT3181	Enable local and remote spindle CH positioning at the same time

Type： ALARM

Function： TI050011

Description： Local and remote spindle C(H) positioning can not be enabled at the same time. Please modify the code related to spindle C(H) positioning.

INT3200	The sequence NO. of GOTO command error

Type： ALARM

Function： N/A

Description：

1. Press RESET to eliminate the warning message.

2. GOTO command skips to the single block with the serial number N will cause endless cycle. For example, N99 GOTO 99.

3. Modify the single block executing GOTO command to make it logical.

INT3201	Compensation unit vector 0

Type： ALARM

Function： N/A

Description： 1. The unit vector to be compensated is 0.
2. The system is malfunctioning, please notify your supplier.
3. Press RESET to eliminate the warning message.

INT3202	Compensation start up arc

Type： ALARM

Function： N/A

Description： 1. The initial compensation command is an arc command.
2. Please revise the arc command to a linear command.
3. Press RESET to eliminate the warning message.

INT3203	Compensation cancel arc

Type： ALARM

Function： N/A

Description： 1. The compensation command to be cancelled is an arc command.
2. Please revise the arc command to a linear command.
3. Press RESET to eliminate the warning message.

INT3204	Compensation line determine 0

Type： ALARM

Function： N/A

Description：

1. Compensation line's determine is 0.

2. Check the program.

3. The system is malfunctioning, please notify your supplier.

INT3205	Compensation vector length 0

Type： ALARM

Function： N/A

Description： 1. In compensation calculation, the length vector is 0.
2. Check the program.
3. The system is malfunctioning, please notify your supplier.

INT3206	Compensation interference

Type： ALARM

Function： N/A

Description： 1. Some interference of over-cutting occurs.
2. Reduce the compensation radius or change the path of the part program.
3. Press RESET to eliminate the warning message.

INT3207	Compensation no interection

Type： ALARM

Function： N/A

Description： 1. There is no intersection deduced in compensation calculation.
2. Reduce the compensation radius or change the path of the part program.
3. Press RESET to eliminate the warning message.

INT3208	**The next block is illegal for chamfer or rounding**

Type： ALARM

Function： N/A

Description：

1. Press RESET to eliminate the warning message.

2. Executing chamfer function in part programs. However, the cutting command not included in the next line causes chamfer unable to calculate and make it lose the validity.

3. Modify the next command of check chamfer command to see if it is comment or blank or the moving command of G0.

Next error command:

- Comment:

```
G00 X20.0 Z40.0
G01 X80.0 ,C10.0 F100.0
/*    Test Here        */
G01 Z10.0
```

- Blank

```
G00 X20.0 Z40.0
G01 X80.0 ,C10.0 F100.0

G01 Z10.0
```

- ;

```
G00 X20.0 Z40.0
G01 X80.0 ,C10.0 F100.0
;
G01 Z10.0
```

- G00

```
G00 X20.0 Z40.0
G01 X80.0 ,C10.0 F100.0
G00 Z10.0
```

INT3209	The first cutting command block without movement(chamfer)

Type： ALARM

Function： N/A

Description：

1. Press RESET to eliminate the warning message.

2. Execute chamfer function (, C). However, the 1st single block does not have cutting command and cause the chamfer function unable to calculate to lose its validity.

3. Modify the 1st single block command of check chamfer command (,C) to see if the movement or G0 command is not included.

Error command:
- Movement is not included in the 1st line:

G00 X20.0 Z40.0
G01 ,C10.0 F100.0
G01 Z10.0

- Command in the 1st line is G00:

G00 X20.0 Z40.0
G00 X80 ,C10.0 F100.0
G01 Z10.0