QUESTIONS?

6.15
ALARM 3n9 (SERIAL PULSE CODER IS ABNORMAL)

An error is generated in the control section of the serial pulse coder.

Points

Check the details by the diagnostic function 760 to 767.

		#7	#6	#5	#4	#3	#2	#1	#0
DGN	0760		CSA		PHA	RCA		CKA	SPH
	:					:			
DGN	0767		CSA		PHA	RCA		CKA	SPH

#6(CSA) Check sum alarm has generated.
#4(PHA) Phase data abnormal alarm has generated.
#3(RCA) Speed count abnormal alarm has generated.
#1(CKA) Clock alarm has generated.
#0(SPH) Soft phase data abnormal alarm has generated.

1 Check the contens using the above diagnostic function if the alarm generates repeatedly. If diagnostic data is the same, serial pulse coder may be faulty.⇒Refer to **NOTE**

2 When diagnostic result does not the same, or other abnormality is detected, an external noise may be generated.

> **NOTE**
> Reference position and machine's standard position are different from the ones before, adjust and set them correctly.

Check the details by the diagnostic function of the CNC.

		#7	#6	#5	#4	#3	#2	#1	#0
DGN	0770	DTE	CRC	STB					
	:					:			
DGN	0777	DTE	CRC	STB					

#7(DTE) Data error has generated.
#6(CRC) Serial communication error has generated.
#5(STB) Stop bit error has generated.

Causes

1) #7(DTE):Response from serial pulse coder is absent.
   1 Signal cable is disconnected
   2 Serial pulse coder is faulty. ⇒ See **NOTE**
   3 +5V to the serial pulse coder is lowered.

2) #6(CRC),#5(STB):Serial communication is in faulty
   1 Signal cable is disconnected.
   2 Serial pulse coder is faulty ⇒ See **NOTE**
   3 Axis card is faulty

> **NOTE**
> After the serial pulse coder is changed, reference position or machine's standard point is different from the one before replacement. Therefore reset and adjust it again.