8. Transmitter installation

8-1 Stylus attachment (RC-K3E)



8-2 Installing the battery

- \cdot Confirm the alignment of the battery electrodes when inserting the battery.
- \cdot Does not function properly if a dead battery is mistakenly inserted into the transmitter.
- \cdot Do not allow coolant or cuttings to get inside the battery case.



8-3 Attachment of the transmitter to shank



8-4 Stylus centering adjustment (mainly for RC-K3E)

Caution : It is necessary to recheck the centering adjustment if the transmitter has been dropped. Absolutely never strike the transmitter when adjusting centering.



9. Maintenance

Cleaning the transmitter

Wipe the window of the transmitter with a clean cloth to remove any cuttings and other debris such as coolant. Clean the transmitter regularly to maintain the signal transmission capabilities of the transumitter in the optimum state.

Battery replacement



Caution:

- · Confirm that the electrodes are correctly aligned when replacing the battery.
- · Does not function properly if a worn down battery is mistakenly inserted into the probe.
- · Do not leave a worn down battery installed in the transmitter.
- \cdot Confirm that the battery cover seal (O ring) has not been removed and use caution to prevent it from being damaged.
- \cdot Be careful so that coolant or cuttings do not get inside battery case when replacing the battery.
- Before attaching the battery cover, check to make sure there is no damage or debris on the seal and its contact surface.
- · Refer to page 3 for information on safe use of the battery.
- · After having replaced a worn down battery, wait for at least 15 seconds before inserting a new battery.

NOTE

10. Troubleshooting

Problem	Possible Cause	Corrective Action
Transmitter power	Dead battery	Replace the battery.
does not come on.	Use of battery other than	Replace the battery.
	recommended battery	
	Battery is installed improperly	Check the alignment of
		the electrodes of the battery.
	The time the battery has been	Wait for at least 15 seconds
	removed is too short, preventing	before installing a new battery.
	the transmitter from resetting.	
Tranmitter does	Transmitter does not switch to the	Check whether the M code output
not operate even	Measuring mode.	(power ON signal) of the control device
when the measur-		is pulse or level.
ement cycle is		Receiver is set to pulse input as the
executed.		factory default settings. In case of
		level output, turn on the DIP switch
		No.7 of the receiver to set to level input.
	Transmitter starts measurement	Turn on the dwell after M code (power
	before switching to Measuring mode.	ON signal) switched on.(It takes up to a
		second to switch to a measurement
		mode after receiving the power ON
		signal. In case of poor communication
		environment, it might take up to 3
		seconds.)
	Probe's power supply is off state .	After confirming that the transmitter is
		Within the range of movement try sending
		M code (power ON signal) again.
	Transmitter and receiver	Check the positional relationship
	outside signal transmission range.	between the transmitter and receiver
		(refer to P17).
	Dead battery	Replace the battery.
Machine stops at	Defective wireless communication	Check the position of the receiver
an unexpected	or transmitter is outside signal	and remove any obstacles.
location during	transmission range.	
the measurement	Problem with control device.	Refer to the user's guide of the
cycle.		control device.
	Dead battery	Replace the battery.
	Transmitter unable to detect target	Check whether workpiece is properly
	object.	installed and secured and whether
		the stylus has been damaged.
	Mulfunction (false detection) due to	Inspect the measurement software.
	sudden acceleration and deceleration	
Collision with	Workpiece present on transmitter	Inspect the measurement software.
probe	movement path.	

Problem	Possible Cause	Corrective Action
Defective	Debris present on workpiece or transmitter.	Clean the workpiece or transmitter.
repeatability or	Inadequate coupling between probe	Check each location and retighten.
measurement	and shank or loose stylus	
accuracy	Defective repeatability of sensor	Recalibrate the sensor whenever
	replacement by ATC	the it is changed.
	Calibration value has not been up-	Inspect the measurement software.
	dated or calibration value is incorrect.	
	Difference in transmission rates	Inspect the measurement software.
	between calibration and measurement	
	Sensor ON signal is output before	Inspect the measurement software.
	contacting the workpiece (signal output due	
	to machine acceleration or deceleration)	
	Problem with control device	Inspect control device accuracy.
Receiver communi-	Transmitter and receiver outside	Check the positional relationship
cation error LED	signal transmission range.	between the transmitter and receiver
lights during meas-		(refer to P17).
urement cycle.		
Receiver battery	Battery is worn down.	Promptly replace the battery.
alarm LED lights/flashes		
Signal transmission	Interference by other wireless	Identify and remove the source of
range excessively	device	the interference.
short.		
LED lights during	M code (power OFF signal) not	Inspect M code (power OFF signal)
processing.	transmitted from receiver.	of the measurement program.
(transmitter power		
does not turn off.)		
Com. LED flashes	Transmitter and receiver outside	Check the positional relationship
more than 5 minutes	signal transmission range.	between the transmitter and receiver
after machine power		(refer to P17).
turned on.	Problem with receiver	Please contact us.

The specifications and descriptions are subject to change without notice due to improvements in products.



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