MODEL G-856A & AX OP MAN EDITION 2/2002 REV 02

ENTER IRECALL By continuously depressing or key when recalling readings, the readings will be automatically reviewed at an increasing rate; for example, the read out rate will start at one reading every half second, then increase within 10 seconds to 5-6 readings every second. FIELD / TIME. Should data in memory become corrupted STATION / DAY will be displayed whenever a key is depressed. However, even though this message is displayed, most keystroke sequences are valid. If the stored data are not totally corrupted, the stored information may still be reviewed or output to an RS-232 device to recover the remaining uncorrupted data. Once the data have been **IERASE** recovered the key can be depressed twice to reset the instrument and completely clear the memory. See note on page 17 One way that memory may be corrupted is by removing power (either by disconnecting an external power device or by removing the internal batteries) while the G-856 is in an operating mode; e.g., auto cycle. In most cases only the last reading will be affected, so the remaining stored data should be transferred to a storage device (a computer or recorder). This transfer must be done before the ERASE ERASE sequence is followed or all of the data in memory will be lost. Until the error is cleared, you will not be able to reactivate the auto cycle mode. Tuning Tuning is accomplished automatically. When the automatic tuning function is activated, the tuning value is automatically updated after each field reading--unless a high gradient is being read. To activate the automatic tuning function press: TUNE **AUTO ENTER** This key sequence will activate the following displays: FIELD/TIME FIELD/TIME Auto STATION/DAY STATION/DAY X XWhile the automatic tuning function is enabled, the instrument cannot be manually tuned. The tuning value and signal level may be displayed but they cannot be changed. Attempts to manually tune the instrument will produce this display: A tunE FIELD/TIME Note: For best performance, manual tune the

Err

STATION/DAY

G-856 before taking the first reading of a survey area, then activate the automatic

tuning function.

To deactivate the automatic tuning function

AUTO

	AUTO		TUNE)	CLEAR						
	The display will be:									
	Auto	(FIELD/TIME)	A tunE	FIELD/TIME						
	x x	STATION/DAY	(on)	(STATION/DAY)						
	To determine w (AUTO) automatic tunin	TUI	VIE V	c running mode, press						
		tunE)	FIELD/TIME							
	(on		STATION/DAY							
	Or off A	tunE	FIELD/TIME							
	off	<u> </u>	STATION/DAY							
To ensure the optimum performance of the automatic tuning function, the										
magnetometer tuning value should be matched to the capacitance of the sensor cable										
	Most Geometrics cables for portable sensors have a capacitance of .03 nano-farads									
foot; thus, the standard portable sensor cable supplied with the G-856 has a total										
capacitance of 0.2 nano-farads. To match the instrument's automatic tuning function										
this standard cable, press										

TUNE

SHIFT

The display will read							
Auto	FIELD/TIME	A tunE	FIELD/TIME				
XX	STATION/DAY	On (or off)	STATION/DAY				
CAP	FIELD/TIME	CAP FI	ELD/TIME				
XXX	STATION/DAY		- STATION/DA	<u>Y</u>			
Key in the capacitance of the sensor cable							
SHIFT and press	0 SH ENTER	IIFT 0	AUTO				
Addendum to Memory Operation'							
In the <u>field mode</u> , a reading can be taken and automatically stored each time READ is depressed. To enter the <u>auto store mode</u> , depress the following keys:							
	AUTO	STORE	EN	ITER			
To clear the <u>auto store</u> mode press:							
	AUTO	STORE	CL	EAR			
In the <u>base station</u> mode the G-856X can be configured to take readings even if the memory is full. In this <u>auto erase</u> mode, the earliest sixteen stored readings will be deleted and the instrument will continue to take readings. To enter the <u>auto erase</u> mode, depress the following keys:							
	AUTO	ERASE	EN	ITER			
To clear the <u>auto erase</u> mode, depress:							
	AUTO	ERASE	CL	EAR			
To determine if either the Auto Store or the Auto Erase feature is ON or OFF, press							
	AUTO Ther presseithe	5	or Ef	RASE			

The display will indicate whether the feature is ON or OFF.