

TORQUE TOOL TESTER



INITIAL USE

Ensure that TD selection switch is in correct position (TD#1, TD#2, TD#3).
 Switch on at side panel.
 Track screen displayed. Press for relevant method of measurement.
 Press EXIT for setup.



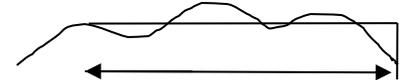
NOTE: It is essential that a new TTT is charged for 3.3 hours.
 For AC power operation, connect power adapter.

For further information on operation & applications see
 TTT Operators Manual (Part number 34308).

BUTTON FUNCTIONS

Button	Function	Button	Function
	Track		Stall Tool
	Dial & Electronic		Unit selection N.m, dN.m, lbf.ft ...
	Click and Cam		PRINT / RESET
	Impulse Tool		√ PRINT / X PRINT
	Clutch Tool		Exit

MODES

Mode	Filter setting	How it works	Visual representation
Track	500 Hz	Follows signal.	
Dial & Electronic	500 Hz	Hold highest signal until reset by user.	
Impulse Tool	500 Hz		
Clutch Tool	500 Hz		
Stall Tool	500 Hz		
Click & Cam	500 Hz	Hold 1 st signal peak for set time, then resets.	

NOTE: The filter setting for each mode can be set independently. To change the filter setting, select 'SETTINGS' and then 'MODE FREQUENCY'. Choose the measurement mode that you want to set and then select a frequency. When selecting 'OTHER FREQUENCY' the user can enter a filter setting that does not appear on the selection list.

SETTINGS

Feature	Settings
Language	11 Language choices
Password	Any 6 characters. (Factory set to 000000).
Frequency	Variable, 100Hz to 2500Hz.
Thresholds / Auto Reset Hold Time	1 / 2 / 3 / 4 seconds.
Thresholds / First Peak Sensitivity	HIGH (2.5% of reading) / MEDIUM (5% of reading) / LOW (10% of reading)
Units	N-m, dN-m, cN-m, lbf-ft, lbf-in, ozf-in, ft-lb, in-lb, in-oz, kgf-m, kgf-cm, gf-m, gf-cm, USER
Power Down Time	1 TO 99 minutes. Set to 0 (zero) to disable.
Limits	Variable, set by user in set up menu

TROUBLESHOOTER'S GUIDE

1. **Zero does not function in track mode**
Transducer overstrained. Return to Norbar.
2. **Measurement modes do not function correctly.**
Ensure that 'TRIGGER FROM' setting is not too high.
3. **Battery only powers TTT for a short time.**
Battery pack may need replacing (see manual)
4. **Serial data output is not communicating with other equipment.**
Check that control word on TTT and data equipment match.
Check baud rate is set to the same as data equipment.
See manual.
5. **Serial data output is overwritten.**
Printer may need line feed – enable via menus SETUP – SETTINGS - SERIAL PORT
6. **Serial data output too fast.**
Printer too slow. Slow down TTT by changing line delay using menus listed above.
7. **Display shows 'SMART TD NOT INITIALISED'.**
 - i) Transducer lead has a broken connection.
 - ii) Unmodified transducer plugged in.
 - iii) SMART transducer lost memory; return to Norbar.
8. **Menu 82. 'CLOCK NOT INITIALISED' displayed when power on.**
Back up battery has failed. Replace or return to Norbar (see manual).
9. **Password lost.**
Contact Norbar quoting coded number on password menu.

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