OPERATOR'S MANUAL

Norbar Torque Tools

TRUCHECK™ 2 & TRUCHECK™ 2 PLUS

Part Number 34460 | Issue 1 | Original Instructions (English)

CONTENTS

PART NUMBERS COVERED BY THIS MANUAL

This manual covers the set up and use of Norbar TruCheck™ 2 Basic and TruCheck™ 2 Plus instruments.

Part Number	Model
43524	TruCheck™ 2 Basic 350 N·m
43525	TruCheck™ 2 Plus 350 N·m
43530	TruCheck™ 2 Basic 1,100 N·m
43531	TruCheck™ 2 Plus 1,100 N·m

SET UP INSTRUCTIONS

1. Identify a suitable surface and position to mount the instrument.
2. Drill two mounting holes suitable for M10 fasteners (M10 Cap Screws of grade 12.9 minimum are recommended).
3. Recommended fastener torque of 35 to 40 N·m (25 to 30 lbf·ft).
4. After connecting the provided power supply the instrument will be ready to use after approximately 12 seconds.

WARNING: **ENSURE THE MOUNTING SURFACE IS CAPABLE OF SUPPORTING THE INSTRUMENT WHEN THE RATED CAPACITY TORQUE IS APPLIED.**

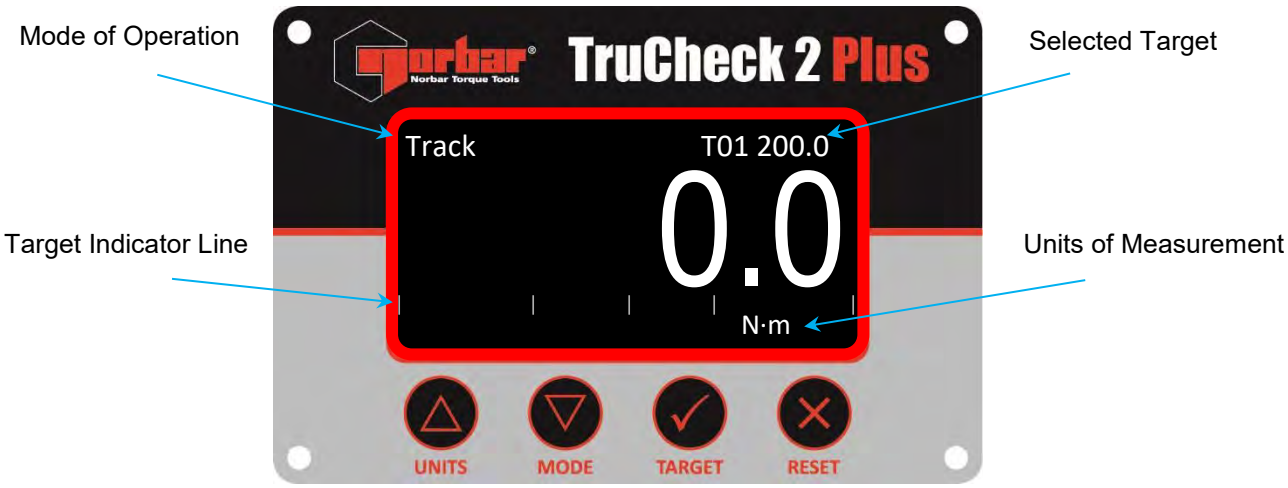
ONLY USE THE POWER SUPPLY PROVIDED.

DO NOT APPLY TORQUE ABOVE THE RATED CAPACITY.

TruCheck™ 2 is intended for testing torque tools only.

OPERATING INSTRUCTIONS – TRUCHECK™ 2 PLUS (43525 & 43531)

Measurement Screen



Changes the Units of Measurement
(N·m, lbf·ft and lbf·in etc.)

To enable/disable units, use the UNITS MENU (Press and Hold)

Changes the Selected Target
(T01 XXX.X, T02 XXX.X etc.)
Units are automatically changed to the targets units.

NOTE: T-- ---- means Targets are OFF

To edit targets, use the TARGET MENU (Press and Hold)

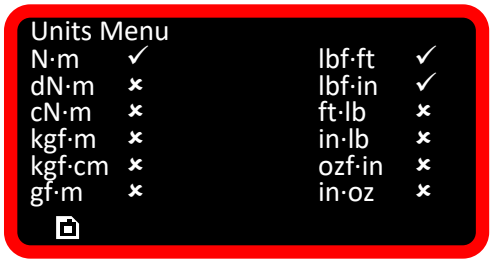
Changes the Mode of Operation
(Track, Click and Dial)

To change Click Mode settings, use the CLICK MENU (Press and Hold)

Resets a captured peak
In Dial Mode (and Click Mode if set to Manual Reset)

Zeroes the reading
In Track Mode if reading <4% Full Scale Deflection (FSD)
In Click and Dial Mode if reading <1% FSD

Units Menu



Select units to enable/disable

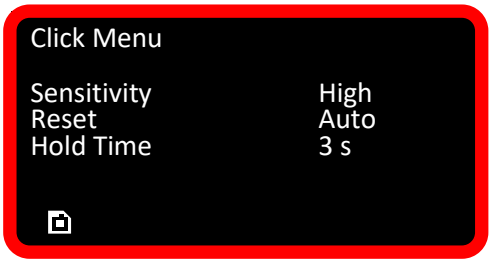
Toggle enable/disable (✓or ×)

Select and press to save and exit

Cancel (exit without saving changes)

NOTE: Units which can be enabled are TruCheck™ 2 Plus model specific (See Technical Specification).

Click Menu



Select menu item (e.g. Sensitivity)

Confirm item

Change setting (e.g. High to Medium)

Confirm setting

Select and press to save and exit

Cancel (exit without saving changes)

Setting Options

Sensitivity: High / Medium / Low

Reset: Auto / Manual

Hold Time: 1 sec / 2 sec / 3 sec

Target Menu

Select menu item (e.g. Units)

Confirm item

Change setting (e.g. N·m to lbf·ft)

Confirm setting

Select and press to save and exit

Cancel (exit without saving changes)

Setting Options

(Target No.): 01 – 15

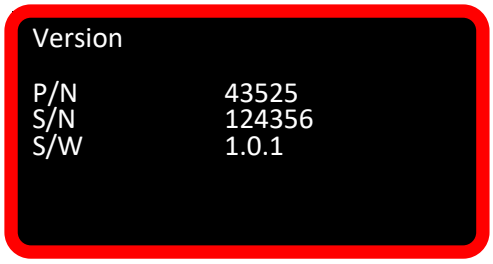
Units: N·m / lbf·ft / etc

Value: 0 or 2 - 100% Capacity (e.g. 7.0 – 350.0)

±% (Tolerance): 1 – 15%

- When changing the target value, you can press and hold the buttons to speed up the change
- When you change the target units, the target value will change to suit
- Setting the target value to ‘0’ disables it, meaning it won’t be selectable in the measure screen

Version Screen



Press and hold RESET from the measurement screen to view the version screen

The version screen contains:

P/N (Part Number of the TruCheck™2 Plus)

S/N (Serial Number)

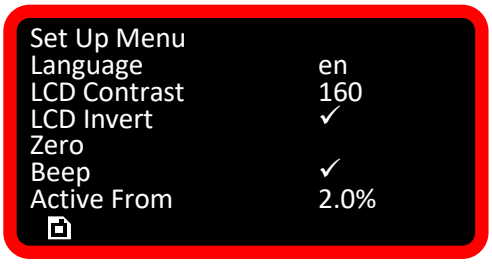
S/W (Software Version Number)

Press RESET to return to the measurement screen

or

Press TARGET to enter the set up menu

Set Up Menu



UNITS MODE Select menu item (e.g. Language)

TARGET Confirm item

UNITS MODE Change setting (e.g. en to fr)

TARGET Confirm setting

Select 💾 and press TARGET to save and exit

RESET Cancel (exit without saving changes)

Setting Options

Language:	en / fr / de / it / da / es / fi / sv / no / pt
LCD Contrast:	1 – 255 (Default 160)
LCD Invert:	Invert (✓) or non-invert (×)
Zero:	Reset the stored Zero value
Beep:	Enable (✓) or disable (×)
Active From:	2.0 to 40.0 % (default 2.0%)

Zero Resetting

Zero resetting should only be performed if the TruCheck™ 2 Plus won't zero in Track mode. If this is the case the transducer may have been overstrained.

If the reading is unstable the TruCheck™ 2 Plus should be returned to a supplier approved agent for repair. It is recommended to get the TruCheck™ 2 Plus recalibrated as soon as possible after resetting the zero. Make sure no torque is being applied to the TruCheck™ 2 Plus and remove any tools from the input drive when resetting the zero.

Active From Setting

This is the percentage of capacity at which Click mode and Dial mode will start to capture peak values.

Target Indication

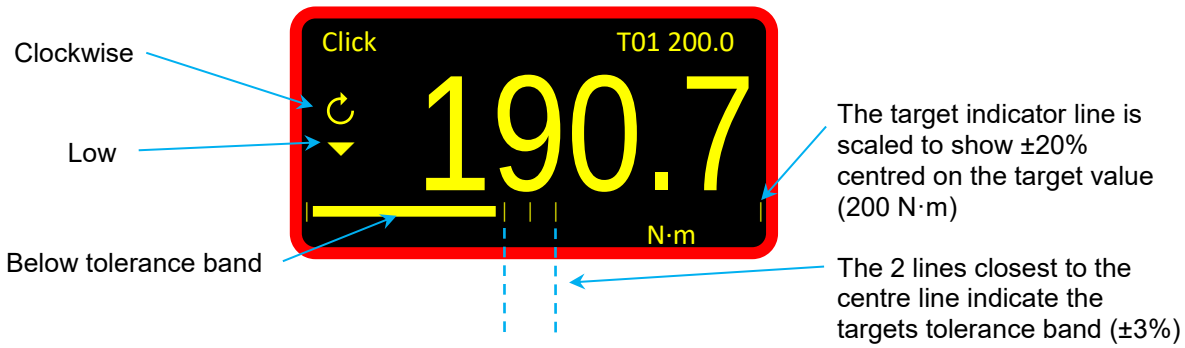
When a target is selected, the TruCheck™ 2 Plus will indicate whether a reading is Low, Pass or High in three different ways.

1. Text colour (Low = Yellow, Pass = Green, High = Red)
2. Target icons (Low = ▼, Pass = ✓, High = ▲)
3. Target indicator line

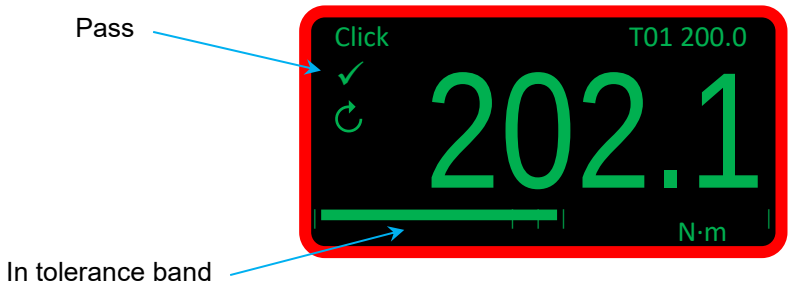
Example

Target 1 (T01) Set to **200.0 N·m ±3%** (194.0 – 206.0 N·m)
Mode set to **Click**

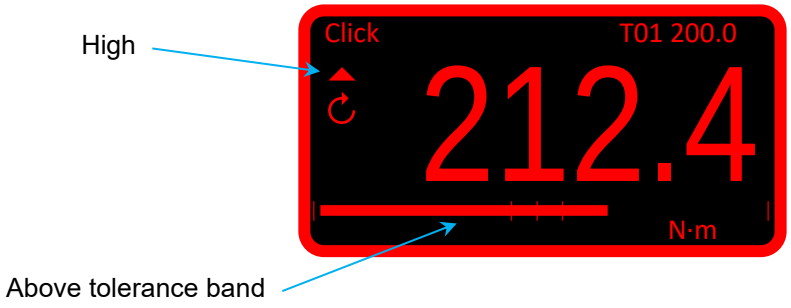
First Reading 190.7 N·m (LOW)



Second Reading 202.1 N·m (PASS)



Third Reading 212.4 N·m (HIGH)



Using the Instrument

1. Select mode of operation
2. Select target
3. Select units
4. Place torque screwdriver / torque wrench in the input drive and operate in the desired direction
5. Remove the torque screwdriver / torque wrench and zero the display (if required) by pressing the RESET button
6. Place the torque screwdriver / torque wrench in the input drive and operate in the desired direction

USB Port

The USB port provides the power for the TruCheck™ 2 Plus. The supplied USB lead can also be used to connect the TruCheck™ 2 Plus to a PC for communication of torque readings.

Connect the TruCheck™ 2 Plus to the PC and a virtual com port will appear in device manager. This com port should be selected and configured to suit the program being used to display the torque readings.

Torque readings will be sent to the PC whenever the RESET button is pressed in any mode and when a peak value is reset (either manually using the RESET button in Dial or Click mode or when auto-reset triggers in Click mode).

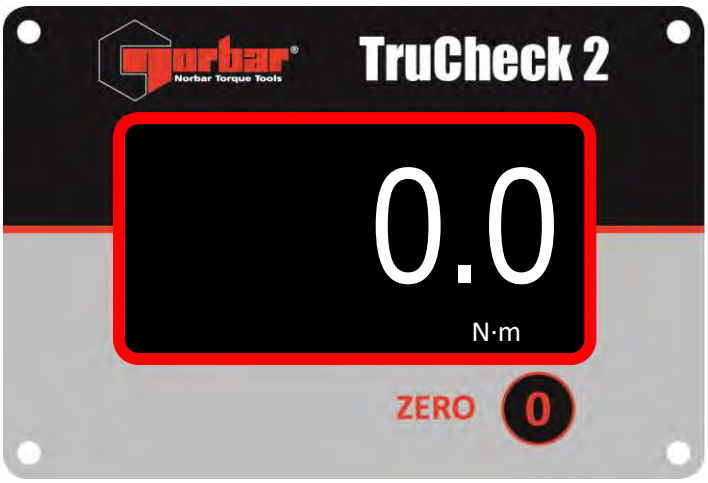
If the PC doesn't detect the TruCheck™ 2 Plus correctly (e.g. if running Windows 7 rather than Windows 10) download the USB driver from the Norbar website.

The USB port can also be used to update the TruCheck™ 2 Plus software.

For the USB driver and to update the TruCheck™ 2 software visit:
https://www.norbar.com/Downloads/Software-Download/Trucheck2

OPERATING INSTRUCTIONS – TRUCHECK™ 2 BASIC (43524 & 43530)

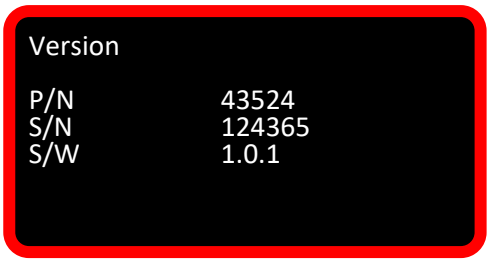
Measurement Screen



Using the Instrument

1. Place torque screwdriver / torque wrench in the input drive and operate in the desired direction
2. Remove the torque screwdriver / torque wrench and zero the display (if required) by pressing the ZERO button
3. Place the torque screwdriver / torque wrench in the input drive and operate in the desired direction

Version Screen



Press and hold the ZERO button from the measurement screen to view the version screen

The version screen contains:

P/N (Part Number of the TruCheck™2)

S/N (Serial Number)

S/W (Software Version Number)

Press the ZERO button to return to the measurement screen

Or

Press and hold the ZERO button for 5 seconds to enter the set up menu

Set Up Menu

Press the ZERO button to select the menu item

Press and hold the ZERO button to confirm/toggle the menu item

Setting Options

LCD Invert:	Invert (✓) or non-invert (×)
Beep:	Enable (✓) or disable (×)
Track:	Put the TruCheck™ 2 into Track mode
Zero:	Reset the stored Zero value
Calibrate:	Put the TruCheck™ 2 into Calibrate mode
X:	Exit without saving changes
	Save changes and exit

Track Mode

Pressing and holding the ZERO button on 'Track' will put the TruCheck™ 2 into Track mode. The TruCheck™ 2 will remain in Track mode until it is disabled in the set up menu, or is power cycled. The TruCheck™ 2 will always power up in its default mode (Click mode).

Zero Resetting

Zero resetting should only be performed if the TruCheck™ 2 won't zero. If this is the case the transducer may have been overstrained.

If the reading is unstable the TruCheck™ 2 should be returned to a supplier approved agent for repair. It is recommended to get the TruCheck™ 2 recalibrated as soon as possible after resetting the zero.
Make sure no torque is being applied to the TruCheck™ 2 and remove any tools from the input drive when resetting the zero.

Calibrate Mode

Only to be used by a supplier approved agent.

USB Port

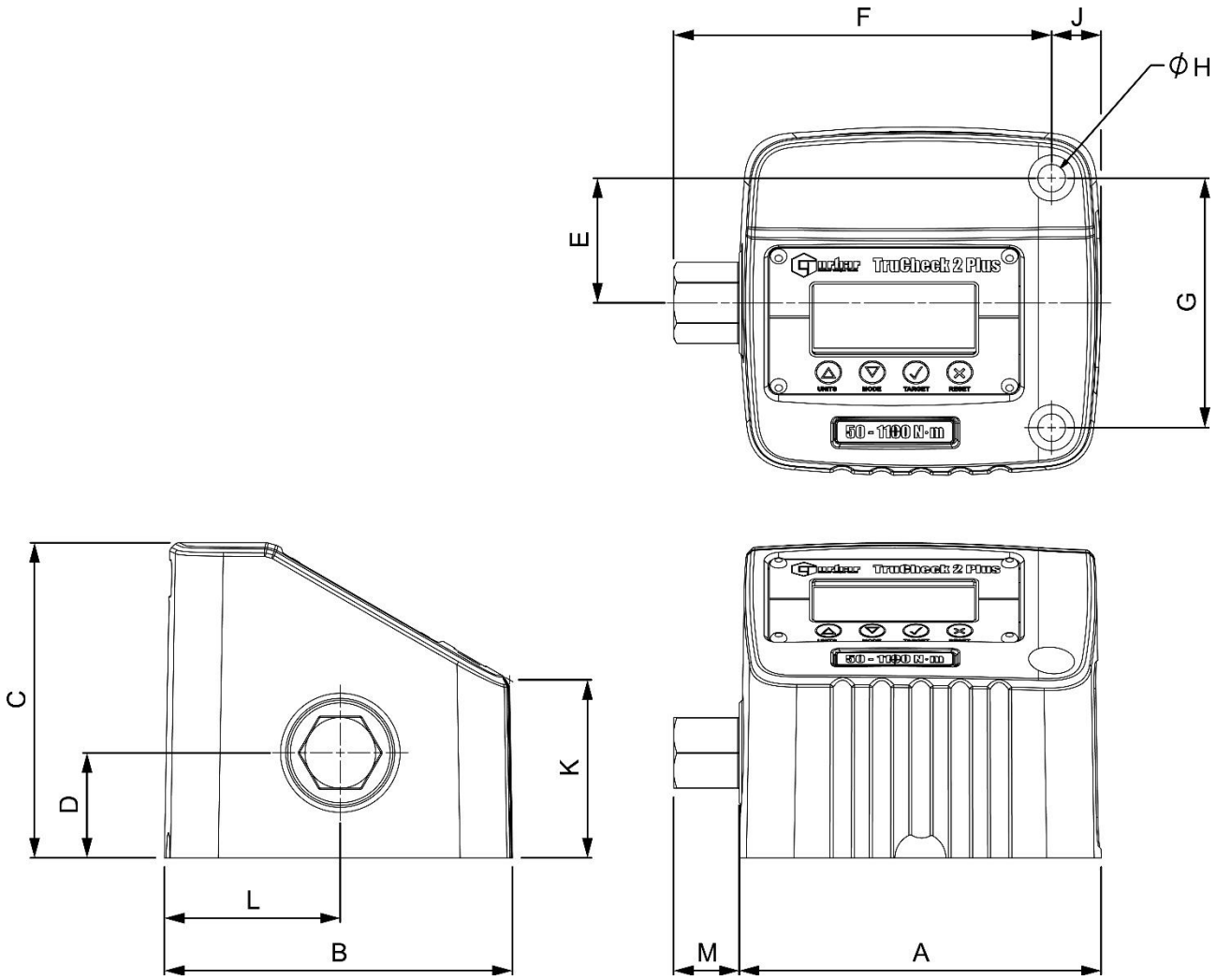
The USB port provides the power for the TruCheck™ 2.
The USB port can also be used to update the TruCheck™ 2 software.

For the USB driver (if required) and to update the TruCheck™ 2 software visit:
https://www.norbar.com/Downloads/Software-Download/Trucheck2

SPECIFICATIONS

Part Number	Model	Inbuilt Transducer Connector	Capacity	Max Torque
43524	TruCheck™ 2 Basic 350 N·m	½" Female Square Drive	10 - 350 N·m	525 N·m
43525	TruCheck™ 2 Plus 350 N·m	½" Female Square Drive	10 - 350 N·m	525 N·m
43530	TruCheck™ 2 Basic 1,100 N·m	27 mm Male Hex Drive	50 - 1,100 N·m	1,650 N·m
43531	TruCheck™ 2 Plus 1,100 N·m	27 mm Male Hex Drive	50 - 1,100 N·m	1,650 N·m

Part Number	Dimensions (mm)												Weight (kg)
	A	B	C	D	E	F	G	ØH	J	K	L	M	
43524	138	117	110	40	40	119	80	10.5	18.5	57.5	59	N/A	2.6
43525	138	117	110	40	40	119	80	10.5	18.5	57.5	59	N/A	2.6
43530	138	132.5	120	40	47.5	144	95	10.5	19	68	67	25	3.5
43531	138	132.5	120	40	47.5	144	95	10.5	19	68	67	25	3.5



Display:	128 x 64 pixel RGB backlit LCD
Display update rate:	5 readings per second (5Hz)
Resolution:	4 digits
Zero suppression:	None
Accuracy:	See calibration certificate (Nominally ±1% of reading)
Units of measurement:	Available units dependant on specific TruCheck™ 2 Plus model

		N·m	dN·m	cN·m	kgf·m	kgf·cm	gf·m	lbf·ft	lbf·in	ft·lb	in·lb	ozf·in	in·oz
43525	350 N·m	✓	✓		✓	✓		✓	✓	✓	✓		
43531	1,100 N·m	✓			✓			✓	✓	✓	✓		

Auto reset hold time:	3 seconds (Plus models – 1, 2 or 3 seconds)
AC power adapter:	90 to 264 Volts AC at 47 – 63 Hz input (World) Interchangeable mains connectors included Energy Efficiency Level VI 5V, 1,000 mA DC USB A output connector
Power consumption:	0.5 W – maximum
Operating temperature range:	0°C to +50°C
Storage temperature range:	-20°C to +70°C
Maximum operating humidity:	85% relative humidity at 30°C
Environment:	IP 40. Indoor use within a light industrial environment
Maximum working torsion:	120% of rated capacity
Absolute maximum torsion:	150% of rated capacity
Case materials / finish:	Powder coated aluminium housing. Stainless steel transducer shaft
Electromagnetic Compatibility:	Designed to comply with EN 61326-1.
Low Voltage Directive	Designed to comply with EN 61010-1. TRANSIENT OVERVOLTAGES up to the levels of OVERVOLTAGE CATEGORY II

NOTE: Due to continuous improvement all specifications are subject to change without prior notice.

CALIBRATION

Your instrument has been supplied with a certificate of calibration. To maintain the specified accuracy it is recommended that the instrument is recalibrated at least once per year. Recalibration should be carried out by the supplier or by a supplier approved agent, where all the facilities to ensure the instrument is functioning at maximum accuracy are available.

IMPORTANT: DO NOT REMOVE FRONT PANEL AS THERE ARE NO CALIBRATION SETTINGS INSIDE.

REPAIR

Repair should be carried out by the supplier or by a supplier approved agent, where all the facilities to ensure the instrument is functioning at maximum accuracy are available.
There are no parts for user repair inside the case.

CLEANING

Do not use abrasives or solvent based cleaners.

WARNING

If the instrument is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

DISPOSAL

This symbol on the product indicates that it must not be disposed of in the general waste.

Please dispose of according to your local recycling laws and regulations.

Butts of Bawtry
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