

TE-500 GENERAL INFORMATION

• TE-500 HANDHELD TACHOGRAPH SERVICE TOOL — GENERAL INFORMATION

TE-500 is a handheld diagnostic and service terminal designed exclusively for K-Line communication at 10,400 bps. It reads and writes tachograph parameters (DID/diagnostic data) and offers quick test routines directly from the device—no PC, CAN, or external UDS interface required.

• WHAT TE-500 WORKS WITH

- MTCO 1324/1390 (analog tachographs)
- VDO 1381 (digital tachographs)
- Stoneridge SE5000 (digital tachographs)
- EFAS V4 and higher (digital tachographs)
- DTCOSim (tachograph simulator for Trucks, Bus, CityBus, Military Vehicle, for vehicles outside the scope of the law)

• WHAT YOU CAN DO

- Measure W: Acquire the W factor for calibration workflows.
- Parameters (Read/Write): Access and adjust key tachograph data. Depending on the model, available items include:
 - K Factor, Odometer, Installation/Calibration Dates, Time & Date
 - O/P Shaft, Service Delay, CAN Priority/Repeat Rate/ Baudrate (125-250-500 Kbps)
 - Binary/Product Codes, VIN, N-RPM Factor, Tyre (L/Tyre Size)
 - Model-specific “Specific / PAGE1–PAGE4” items on digital units (e.g., VDO 1381).
- Tests: Run Speed Test and Odometer Test routines.
- DTCs: Read and Erase diagnostic trouble codes where supported.
- Sensor Pairing: Execute pairing procedures with the speed sensor (supported models).

• SIMPLE, CONSISTENT OPERATION

TE-500 is menu-driven. Select a function, the device reads the current value over K-Line, and the screen shows the result. Four soft keys streamline daily work:

- F1 – Refresh (re-read current value)
- F2 – Edit / Save

- Enter Edit Mode to change the value
- F1 exits edit mode without saving
- F2 saves (writes the new DID), then the device re-reads to confirm and displays the updated value
- F3 / F4 are context keys used by specific menus (when applicable)

• DEVICE MENUS (HIGHLIGHTS)

- Main Menu
 - MTCO 1324/1390: Measure W, Parameters, Speed/Odometer Tests, Erase DTCs, Sensor Pairing
 - Digital VDO 1381: Measure W, Parameters (Calibration, Other, Specific Pages 1–4, Information), Speed/Odometer Tests, Read/Erase DTCs, Sensor Pairing
 - Digital SE5000 and EFAS (if present): Similar structure with Calibration/Other/Specific/Information
- Device Setup: Licence, device settings, Wi-Fi SSID/password (where applicable), base licence
- Language Setup: Türkçe / English / Deutsch / Russian / Spanish
- About: Manufacture date, serial number, version, manufacturer (Tutku Elektronik), Made in Türkiye

• COMMUNICATION & PROTOCOLS

- Physical layer: K-Line (ISO 9141 / ISO 14230 style timing) at 10,400 bps
- Diagnostic services: KWP2000/UDS-over-K-Line and manufacturer-specific commands as required by each tachograph model

• NOTES & LIMITATIONS

- TE-500 is a stand-alone K-Line device. It does not currently provide PC connectivity, CAN bus diagnostics, or UDS over CAN.
- Available parameters and functions may vary by tachograph model and software version.

TE-500 PHOTOS

TRANSPORT CASE



CARRYING BAG AND ACCESSORIES



TE-500 HARDWARE MAIN DEVICE



TE-500 ENGLISH LANGUAGE MENU



TE-500 GERMAN LANGUAGE MENU



TE-500 TURKISH LANGUAGE MENU



TE-500 RUSSIAN LANGUAGE MENU



TE-500 SPANISH LANGUAGE MENU



WARRANTY LABEL AND CONNECTION SOCKET



UPDATE DEVICE

We have enhanced our device with an advanced automatic update feature, accessible via an internet connection. Each time the device is powered on, it automatically checks for the availability of new software updates if connected to the internet. If a new update is available, the device seamlessly initiates the update process, ensuring that it always operates with the latest software enhancements. This feature not only improves the device's performance and capabilities but also provides users with the latest functionalities and security features. It is designed to keep the device up-to-date effortlessly, minimizing the need for manual interventions and providing a more efficient, reliable, and secure user experience.

FUNCTION AND MENU OVERVIEW

TE-500 DEVICE MENU STRUCTURE

- └─1. MAIN MENU
 - └─1.1. MTC0 1324/1390
 - | └─1.1.1. Measure W
 - | | └─Manual
 - | └─1.1.2. Parameters
 - | | └─K Factor
 - | | └─Odometer
 - | | └─ Instal. Date
 - | | └─Calibr. Date
 - | | └─Time & Date
 - | | └─Time Offset
 - | | └─O/P Shaft
 - | | └─Service Delay
 - | | └─CAN Priority
 - | | └─Binary Code
 - | | └─Product Code
 - | | └─VIN
 - | | └─Seal Number
 - | | └─N-RPM Factor
 - | | └─L-Tyre
 - | | └─Serial Number
 - | └─1.1.3. Speed Test

- | | | └─Manual
- | | └─1.1.4. Odometer Test
- | | └─1.1.5. Erase DTCS
- | | └─1.1.6. Sensor Pairing
- |
- | └─1.2. DIGITAL VDO
- | | └─1.2.1. Measure W
- | | | └─Manual
- | | └─1.2.2. Parameters
- | | | └─1.2.2.1. Calibration
- | | | | └─W Factor
- | | | | └─K Factor
- | | | | └─L (Tyre Circle)
- | | | | └─Tyre Size
- | | | | └─Max.Auth.Speed
- | | | | └─Odometer
- | | | | └─Time & Date
- | | | | └─Next Calibration Date
- | | | | └─Vehicle Region Nation
- | | | | └─Vehicle Region Number
- | | | | └─Vehicle Identification Number
- | | | └─1.2.2.2. Other Parameters
- | | | | └─ResetHeartbeat
- | | | | └─TC01 Priority
- | | | | └─O/P Shaft
- | | | | └─CAN Repeat Rate

				1.2.2.3. Specific
				Part Number
				Drv1 ign.ON
				Drv2 ign.ON
				Drv1 ign.OFF
				Drv2 ign.OFF
				D1D2 Record
				RPM Record
				Speed Record
				Instal. Date
				ResetHeartbeat
				CAN error
				CAN2 TC01 mess
				CAN2 Wakeup D3
				CAN2 Remote Down
				RD Interface
				Speed Warning
				Illum.Mode
				IMS Activation
				IMS Source
				IMS Factor
				VDO Counter
				Calib. Warning
				Card Warning
				B7 Control
				Display Color

- | | | | —Military Mode
- | | | | —Kn Factor
- | | | | —CAN2 Activation
- | | | | —Veh.Pos.Source
- | | | —1.2.2.4. (Direct)
- | | | | —Change CAN1 Baudrate
- | | | | —Change CAN2 Baudrate
- | | | —1.2.2.5. Information
- | | | | —Supplier ID
- | | | | —Manufacture Date
- | | | | —Serial Number
- | | | | —Hardware Number
- | | | | —Hardware Version
- | | | | —Software Number
- | | | | —Software Version
- | | | | —Licence Number
- | | —1.2.3. Speed Test
- | | | —Manual
- | | —1.2.4. Odometer Test
- | | —1.2.5. Read DTCS
- | | —1.2.6. Erase DTCS
- | | | —1.2.7. Sensor Pairing
- |
- | —1.3. DIGITAL SE5000
- | | —1.3.1. Measure W
- | | | —Manual

			└─1.3.2. Parameters
			└─└─1.3.2.1. Calibration
			└─└─└─W Factor
			└─└─└─K Factor
			└─└─└─L (Tyre Circle)
			└─└─└─Tyre Size
			└─└─└─Max.Auth.Speed
			└─└─└─Odometer
			└─└─└─Time & Date
			└─└─└─Next Calibration Date
			└─└─└─Vehicle Region Nation
			└─└─└─Vehicle Region Number
			└─└─└─└─Vehicle Identification Number
			└─└─└─1.3.2.2. Other Parameters
			└─└─└─└─ResetHeartbeat
			└─└─└─└─TC01 Priority
			└─└─└─└─O/P Shaft
			└─└─└─└─CAN Repeat Rate
			└─└─└─1.3.2.3. Specific
			└─└─└─└─Part Number
			└─└─└─└─Drv1 ign.ON
			└─└─└─└─Drv2 ign.ON
			└─└─└─└─Drv1 ign.OFF
			└─└─└─└─Drv2 ign.OFF
			└─└─└─└─D1D2 Record
			└─└─└─└─RPM Record

					Speed Record
					Instal. Date
					Reset Trip CAN
					CANBus Activation
					Speed Corr
					D6
					D4 LS Value
					D4
					Speed Warning
					Light Input
					RPM Input
					IMS Source
					IMS Factor
					Default Language
					Serial Output
					IMS Gain
					Change Logo
					Calib. Warning
					Activity IGN
					CAN A Diag
					Display Color
					Military Mode
					Kn Factor
					B3 Filter
					Serial Protocol
					Bright Night

- | | | | | —Bright Day
- | | | | | —Comp Card Reg
- | | | | | —CAN Wake Up
- | | | | | —CAN C Activation
- | | | | | —CAN C Rate
- | | | | | —CAN A Rate
- | | | | | —CAN A Terminate
- | | | —1.3.2.4. Information
 - | | | —Supplier ID
 - | | | —Manufacture Date
 - | | | —Serial Number
 - | | | —Hardware Number
 - | | | —Hardware Version
 - | | | —Software Number
 - | | | —Software Version
 - | | | —Licence Number
- | | —1.3.3. Speed Test
 - | | —Manual
- | | —1.3.4. Odometer Test
- | | —1.3.5. Read DTCS
- | | —1.3.6. Erase DTCS
- | | —1.3.7. Sensor Pairing
- |
- | —1.4. DIGITAL EFAS
 - | | —1.4.1. Measure W
 - | | —Manual

- └─2.1. LICENCE
- └─2.2. WIFI SET
 - | └─SCAN SSID
 - | └─MANUAL SSID
 - | └─PASSWORD
- └─2.3. LANGUAGE
 - └─ENGLISH
 - └─TURKISH
 - └─GERMAN
 - └─SPANISH
 - └─RUSSIAN

SUPPORTED DEVICES

List of Supported Devices:

- MTCO 1324
- DIGITAL VDO 1381
- DIGITAL STONERIDGE SE5000
- DIGITAL EFAS V.4
- DTCO SIM