Digital Application Sheet

VEHICLE MANUFACTURER	Mazda
MODEL	BT-50 (With Radio Kit)
YEAR OF MANUFACTURE	2007 on
ENGINE TYPE	Duratorq
TRANSMISSION	Mazda 4x4 5-Speed Manual
VOLTAGE	12v

STONERIDGE DIGITAL KIT FOR THIS VEHICLE: 7800-102

PARTS LIST	QUANTITY	STONERIDGE PART NO.
SE5000 TACHOGRAPH	1	
CD / TACHOGRAPH FACIA	1	
SENDER	1	
SENDER CABLE	1	
SHROUD SEALING KIT	1	
DRIVER QUICKGUIDE	1	102022P/01
INSTALLATION KIT	1	
ADAPTOR KIT	1	
SIGNAL CONDITIONER	1	
CD / RADIO PLAYER	1	
ISO HARNESS	1	
APPLICATION SHEET	1	6800-328
TACHO MOTIONGPS	1	

A KRM series SE5000 programmed using the SE5000 Configuration System can also be used in this vehicle.

To configure the SE5000 KRM using the SE5000CS, select the Ranger 2007-ON icon within the Ford manufacturer type.

Ensure that 2nd Source of motion is set to C3 Enabled and C3 Speed Factor is set correctly within Sensor Test within MKIII Programmer on the Optimo.

FITTING INFORMATION

KITAS 2 SENDER

STONERIDGE ADAPTOR

COMPLETE UNIT

Workshop Technical Support

Tel +44 (0) 1382 866 400 (choose opt.2. opt.1)

Fax +44 (0) 1382 866 401

Sales Office

Tel +44 (0) 1382 866 400 (choose opt.1)

Fax +44 (0) 1382 866 401

Whilst we have endeavoured to ensure the accuracy of the information supplied, Stoneridge Electronics cannot be held responsible for any errors or omissions. It is the installer's responsibility to ensure compliance with specific vehicle manufacturers repair procedures, especially with regard to the procedure for disconnection/reconnection of the battery. Failure to comply with the vehicle manufacturers instructions may result in personal injury and/or component damage/data loss.

SE5000 Programming Sheet

PROGRAMMING PARAMETERS FOR FITTING THIS VEHICLE WITH AN SE5000 KRM SERIES TACHOGRAPH.

Note. Read the parameters of the tachograph to be replaced, and note all connections to the tachograph, paying particular attention to Vpulse, dual axle configuration, D8 serial data, Revs input etc.
The below vehicle settings are the default vehicle settings which should be applied. However, individual vehicle specifications may vary.
Default setting for D6 outputs that can be switched between ISO & Open collector (o/c) is ISO.
The vehicle must be calibrated in an approved manner after fitting.
The road speed limiter must be calibrated after a replacement tachograph is fitted.
The illumination of the KRM series tachograph can be changed between White & Green, please select the colour best suited to the vehicle illumination.

If you are in doubt regarding the replacement of any tachograph with a KRM series product please call:-

TACHOGRAPH	CANBUS	CAN	CAN	ILLUMINATION	REVS INPUT	SPEED LIMITER	D6
5002KRM	N/A	N/A	N/A	A2	C3	90km/H	ISO

READ ALL DATA LOG

PARAMETER	VALUE / SETTING	PARAMETER	VALUE / SETTING
W-FACTOR		Def. KEY ON/OFF	
K-FACTOR		RPM FACTOR	
L-FACTOR		D4 PIN FUNCTION	
TYRE SIZE		D5 PIN FUNCTION	
VIN		D6 PIN FUNCTION	
VRN		D7 PIN FUNCTION	
VEH. REG. NATION		SERIAL DATA OUT (D8)	
PREF. LANGUAGE		C1 PIN FUNCTION	
CURRENT TIME		FILTER PIN B3	
CURRENT DATE		CAN TRIP RESET	
TIME OFFSET		CAN WAKE UP	
NEXT CALIB.DATE		RD CAN CONFIG	
INSTALL DATE		ADD. EVENT REC.	
ACTIVATION TIME	READ ONLY. –DATE FORMAT / UNACTIVATED	ENG. SPEED REC.	
SERVICE DELAY		VRESD	
ODOMETER		VEH. SPEED REC.	
O/P SHAFT FACTOR		VRVSD	
SPEEDO OP FACTOR		PRE-OVERSPEED	
RESET HEARTBEAT		PRE-NEXT CALIBRATION	
LOW SPEED LIMIT		WARRANTY TIME	
BACKLIGHT SELECT		LOW POWER BAND	
ILLUMINATION LEVEL		ECONOMY POWER BAND	
ILLUMINATION OFF		POOR ECONOMY	

Workshop Technical Support

Tel +44 (0) 1382 866 400 (choose opt.2. opt.1)

Fax +44 (0) 1382 866 401

Sales Office

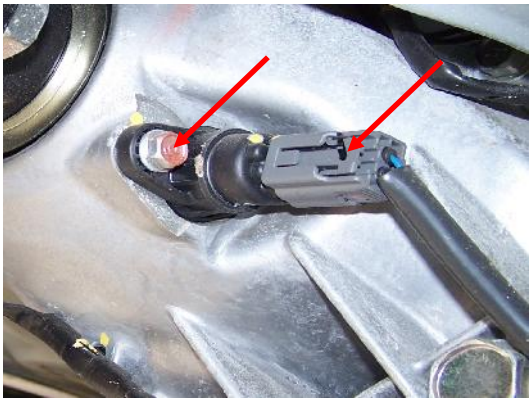
Tel +44 (0) 1382 866 400 (choose opt.1)

Fax +44 (0) 1382 866 401

Whilst we have endeavoured to ensure the accuracy of the information supplied, Stoneridge Electronics cannot be held responsible for any errors or omissions. It is the installer's responsibility to ensure compliance with specific vehicle manufacturers repair procedures, especially with regard to the procedure for disconnection/reconnection of the battery. Failure to comply with the vehicle manufacturers instructions may result in personal injury and/or component damage/data loss.

Digital Application Sheet

1. Locate the original Speed Sensor.



2. Disconnect the cable by pressing in on the tab and remove the original sensor by removing the nut using a 10mm socket.

3. Remove the gear by sliding off the circlip.

4. Connect the original sensor back up and cable tie it securely out of the way.

5. Fit the gear onto the Stoneridge Adaptor, ensuring the new circlip is fitted.

6. Install Stoneridge Adaptor ensuring security screw provided is fitted securely.

Workshop Technical Support

Tel +44 (0) 1382 866 400 (choose opt.2. opt.1)

Fax +44 (0) 1382 866 401

Sales Office

Tel +44 (0) 1382 866 400 (choose opt.1)

Fax +44 (0) 1382 866 401

Whilst we have endeavoured to ensure the accuracy of the information supplied, Stoneridge Electronics cannot be held responsible for any errors or omissions. It is the installer's responsibility to ensure compliance with specific vehicle manufacturers repair procedures, especially with regard to the procedure for disconnection/reconnection of the battery. Failure to comply with the vehicle manufacturers instructions may result in personal injury and/or component damage/data loss.

Digital Application Sheet

7. Screw Kitas 2 sender onto the Stoneridge Adaptor and seal the sender to the gearbox using the security wire and security screw.

8. Run sender cable along the gearbox following the other cables ensuring it is cable tied regularly and at the opposite side to exhaust.

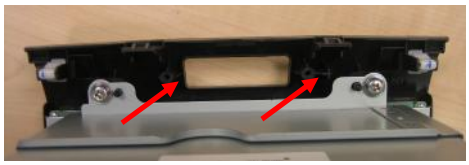
9. Feed the sender cable through the blind grommet on the drivers side in engine bay.

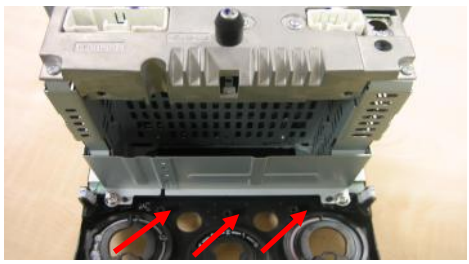
10. Remove original CD facia by removing the 3 knobs, then removing the 2 screws.

11. The Facia can then be clicked out of the surrounding panelling by prising it off.

12. Remove the 2 screws which holds in the Hazard Warning button and also the 3 screws which holds in the Air Conditioning buttons.

13. Unclip the white CD connector and slide out the Arial connection





Workshop Technical Support

Tel +44 (0) 1382 866 400 (choose opt.2. opt.1)

Fax +44 (0) 1382 866 401

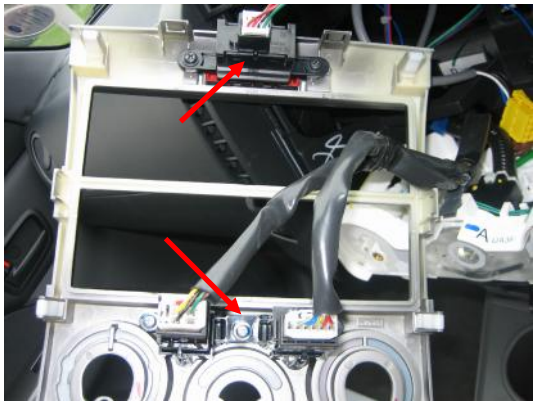
Sales Office

Tel +44 (0) 1382 866 400 (choose opt.1)

Fax +44 (0) 1382 866 401

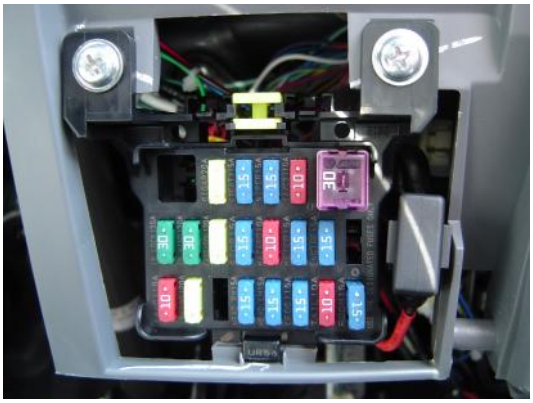
Whilst we have endeavoured to ensure the accuracy of the information supplied, Stoneridge Electronics cannot be held responsible for any errors or omissions. It is the installer's responsibility to ensure compliance with specific vehicle manufacturers repair procedures, especially with regard to the procedure for disconnection/reconnection of the battery. Failure to comply with the vehicle manufacturers instructions may result in personal injury and/or component damage/data loss.

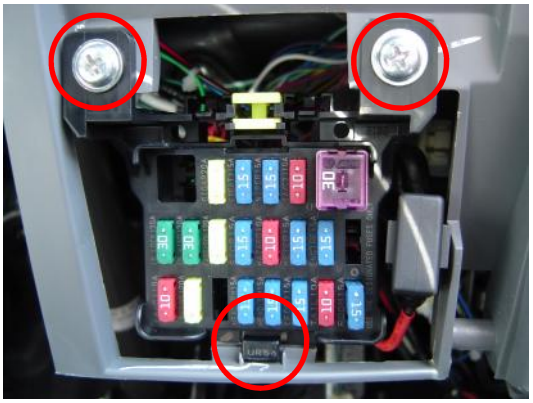
Digital Application Sheet



14. Fit the Hazard Warning and Air Conditioning buttons into the new CD / Tachograph facia.

15. Install the tachograph cage before clipping on the new facia and ensure the 2 screws are secure before replacing the knobs.





16. Locate the fuse box to the bottom right hand side of the steering wheel.

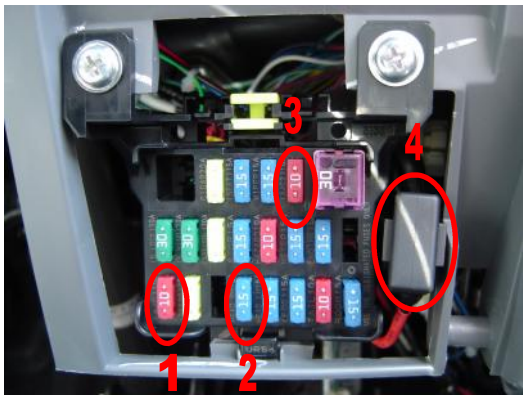
17. Remove the fuse box by unscrewing the 2 screws and unclipping the clasp at the bottom.

18. Use the wires from the following fuses to power the tachograph:-

Wire from rear of fuse marked 1 goes to connector A1 of tachograph through a 1 amp fuse, marked 4.

Wire from rear of fuse marked 2 goes to connector A2 of tachograph.

Wire from rear of fuse marked 3 goes to connector A3 of tachograph.



Workshop Technical Support

Tel +44 (0) 1382 866 400 (choose opt.2. opt.1)

Fax +44 (0) 1382 866 401

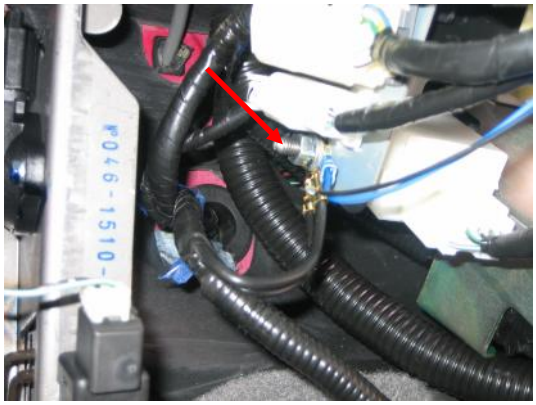
Sales Office

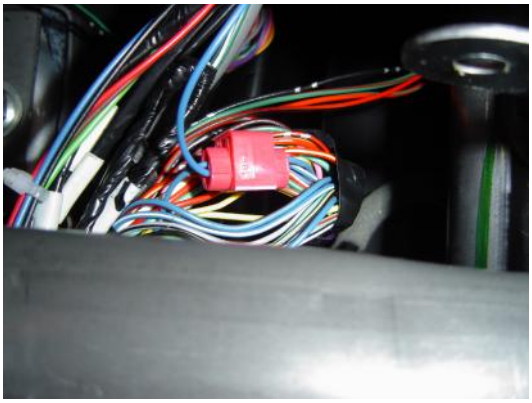
Tel +44 (0) 1382 866 400 (choose opt.1)

Fax +44 (0) 1382 866 401

Whilst we have endeavoured to ensure the accuracy of the information supplied, Stoneridge Electronics cannot be held responsible for any errors or omissions. It is the installer's responsibility to ensure compliance with specific vehicle manufacturers repair procedures, especially with regard to the procedure for disconnection/reconnection of the battery. Failure to comply with the vehicle manufacturers instructions may result in personal injury and/or component damage/data loss.

Digital Application Sheet





19. The Ground connections for A5 and A6 of the tachograph can be picked up from the common ground bolt near the accelerator.

20. Attach the signal conditioner between the Blue wire with Silver flashes behind cluster and D6 of the tachograph

21. The sender cable and A & D connectors are fed behind cluster to the new facia.

22. The tachograph can now be connected and installed.

23. The CD / Radio can now be connected and installed using the ISO Harness.

24. The D6 on the tachograph must be set to Speedometer using the MKII Programmer and the Speedo output factor should be set to 4971.

25. The Tachograph is now ready for calibration.

Workshop Technical Support

Tel +44 (0) 1382 866 400 (choose opt.2. opt.1)

Fax +44 (0) 1382 866 401

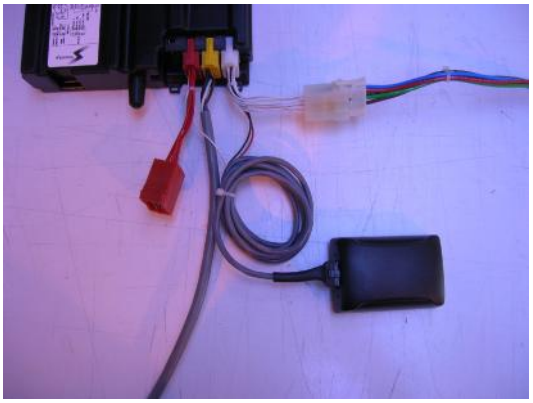
Sales Office

Tel +44 (0) 1382 866 400 (choose opt.1)

Fax +44 (0) 1382 866 401

Whilst we have endeavoured to ensure the accuracy of the information supplied, Stoneridge Electronics cannot be held responsible for any errors or omissions. It is the installer's responsibility to ensure compliance with specific vehicle manufacturers repair procedures, especially with regard to the procedure for disconnection/reconnection of the battery. Failure to comply with the vehicle manufacturers instructions may result in personal injury and/or component damage/data loss.

Digital Application Sheet



26. The 2nd Source of motion is obtained by using the GPS Module and cable harness as shown.

27. The cable harness is connected directly in-line with the tachograph power cable when connecting to the tachograph as shown.

28. The GPS Module should be placed in a suitable area within the cab, preferably in an area next to the windscreen.

Workshop Technical Support

Tel +44 (0) 1382 866 400 (choose opt.2. opt.1)

Fax +44 (0) 1382 866 401

Sales Office

Tel +44 (0) 1382 866 400 (choose opt.1)

Fax +44 (0) 1382 866 401

Whilst we have endeavoured to ensure the accuracy of the information supplied, Stoneridge Electronics cannot be held responsible for any errors or omissions. It is the installer's responsibility to ensure compliance with specific vehicle manufacturers repair procedures, especially with regard to the procedure for disconnection/reconnection of the battery. Failure to comply with the vehicle manufacturers instructions may result in personal injury and/or component damage/data loss.