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MERCEDES-BENZ

Trip Computer

courtesy of 500Eboard.com

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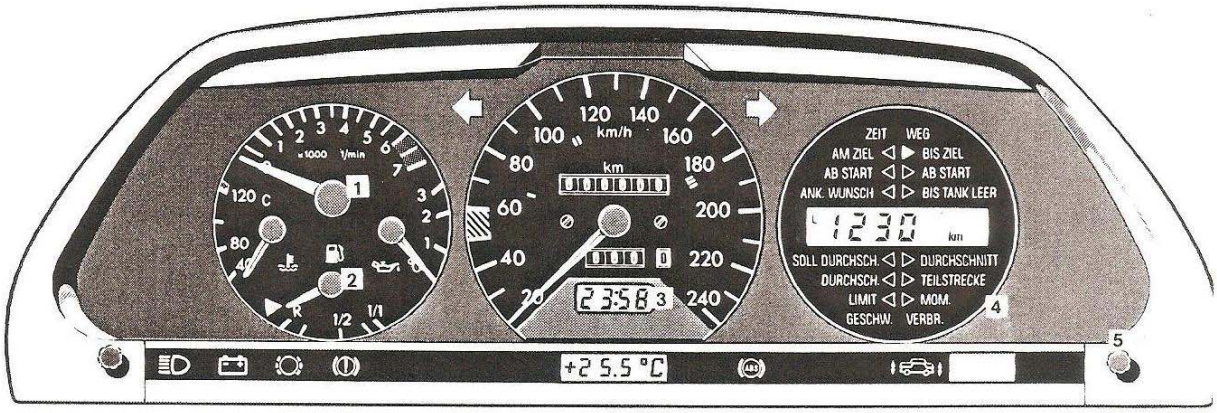

Instrument cluster

Owing to the installation of the trip computer the layouts of the instruments as compared with data in operating instructions have been changed.

1 Tachometer
2 Fuel gauge
3 Digital clock
4 Display unit of trip computer
5 Pull knob to adjust digital clock time, refer to page 9

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Indicating unit

4 sectors with 3 informations each. Each information is accompanied by an arrow.

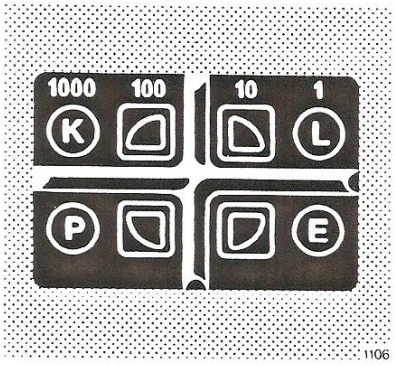
1 ZEIT – time
- AM ZIEL – at destination
- AB START – from start
- ANK. WUNSCH – desired arrival

2 WEG – distance
- BIS ZIEL – up to destination
- AB START – from start
- BIS TANK LEER – until tank is empty

3 GESCHW. – speed
- SOLL DURCHSCH. – nominal average
- DURCHSCH. – average
- LIMIT – limit

4 VERBR. – consumption
- DURCHSCH. – average
- TEILSTRECKE – for section
- MOM. – momentary

5 Display window
Indicated data:
K = short distance operation or
L = long distance operation; numerical value and unit of measurement



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Operating unit

8 buttons, partially with multiple functions:

K – Select short distance operation
- Cancel stored values
- Put in thousands-digits

– Call ZEIT (time) information
- Put in hundreds-digits

– Call WEG (distance) information
- Put in tens-digits

L – Select long distance operation
- Cancel stored values
- Put in units

P – Programming button
- Push prior to putting in digits

– Call GESCHW. (speed) information

– Call VERBR. (consumption) information

E – End of input button
- Push after putting in digits

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The trip computer provides 12 informations about time, distance, speed and consumption. These informations are shown on indicator unit and can be called by means of the buttons of the operating unit.

The indicating unit in instrument cluster is subdivided into 4 sectors with 3 informations each.

The selected information is recognized by the arrow lighting up on unit. In addition, the value for the selected information shows up in display window.

The operating unit with 8 buttons is located on center console. The upper buttons have multiple functions.

The buttons serve to control the following functions:

- Select short distance operation (K) or long distance operation (L)
- Cancel stored values manually
- Call informations
- Put in digits for:
  ZEIT ANK. WUNSCH – time desired arrival,
  WEG BIS ZIEL – distance up to destination,
  GESCHW. LIMIT – speed limit, adjust time

The trip computer is operational at key position 2 in steering look. For given functions the digital clock in instrument cluster must be set to the correct time (refer to page 9).

Short distance and long distance operation

(K and L operation)

Two operating modes can be select They are indicated by a K or an L in display window:

K = Short distance operation
L = Long distance operation

During K operation the displayed va ues refer to actual drive.

During L operation the values of the previous trips and the actual trip are compiled to a total indication.

The values are computed both for K well as for L operation.

As an example, the entire distance driven during a one-day trip, during vacation or during a month can be divided into several sections. Prop programmed, the values of the tota distance can be computed and displayed during L operation, and the ues of a section during K operation

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K operation

When the key in steering lock is turned to position 2, the trip computer is initially switched to K operation (K in display window flashes) and the arrow WEG BIS ZIEL (distance up to destination) lights up.

Without actuation of button K, any stored values will be automatically cancelled during K operation after driving 1000 m. New values are computed from start of trip.

Given informations can be called for already now (refer to page 8).

If all the informations are to be computed, a numerical input for
ZEIT ANK. WUNSCH – time desired arrival,
WEG BIS ZIEL – distance up to destination,
GESCHW. LIMIT – speed limit
must be made (refer to page 9).

Values in memory are not cancelled when button K is pushed for a short moment only or when button P is pushed prior to putting in the numerals (K in display window stops flashing).

Notes

When a trip is interrupted, button K must be pushed each time prior to moving on, since otherwise the values stored so far will be automatically cancelled.

The values stored in K operation can also be cancelled manually. For this purpose, keep pushing button K until 0:00 h shows up in display window and the arrow ZEIT AB START (time from start) lights up.

Manual cancellation of values is required when the computations are to be made for start of trip and when in addition numbers for ZEIT ANK. WUNSCH (time desired arrival) and WEG BIS ZIEL (disance up to destination) are put in.

L operation

With key in steering lock in position 2 switchover to L operation is made by pushing button L for a short moment

The values stored during L operation are not automatically cancelled. They are combined with the values of the actual trip.

Manual cancelling of values stored during L operation can serve to determin from which moment in time the computations can be newly started. For this purpose, keep pushing button L until 0:00 h shows up in display window and the arrow ZEIT AB START (time from start) lights up.

Note:

If during L operation the values stored during K operation are not be cancelled, push button K for a short momen prior to switching over to L operation.

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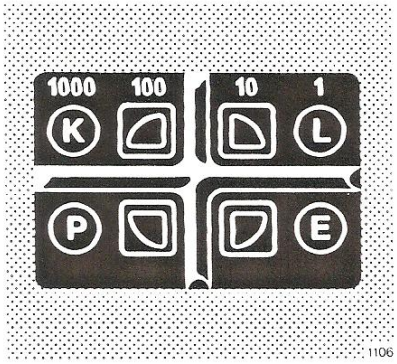

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Turn key in steering lock into position 2 – the arrow WEG BIS ZIEL (distance up to destination) lights up and K (K operation) in display window flashes.

Selecting K or L operation

Push button Ⓚ for a short moment = K operation (K in display window stops flashing)

Push button Ⓛ for a short moment = switching over to L operation (L in display window)

Manual cancelling of stored values

Push button Ⓚ for a longer period = values in K operation cancelled.

Push button Ⓛ for a longer period = values in L operation cancelled.

Keep pushing button Ⓚ or Ⓛ respectively, until 0:00 h shows up in display window and the arrow ZEIT AB START (time from start) lights up.

Calling informations

Depending on desired information, push button ◿, ◺, ◹ or ◸. Continue pushing respective button until the arrow of the desired information lights up.

The following informations can be computed and called without numerical input:

- ZEIT AB START – time from start
- WEG AB START – distance from start
- WEG BIS TANK LEER – distance until tank is empty
- GESCHW. DURCHSCH. – speed average
- VERBR. DURCHSCH. – consumption average
- VERBR. TEILSTRECKE – consumption for section
- VERBR. MOM. – consumption momentary

When putting in digits for WEG BIS ZIEL (distance up to destination) the following information is also displayed:

- ZEIT AM ZIEL – time at destination
- WEG BIS ZIEL – distance up to destination

Additional readout when putting in digits for WEG BIS ZIEL (distance up to destination) and ZEIT ANK. WUNSCH (time desired arrival):

- ZEIT ANK. WUNSCH – time desired arrival
- GESCHW. SOLL DURCHSCH. – speed nominal average

When a value for GESCHWINDIGKEIT LIMIT (speed limit) is put in, the readout changes automatically to

- GESCHWINDIGKEIT LIMIT – speed limit

The display window continues flashing the put in value and a warning buzzer sounds off.

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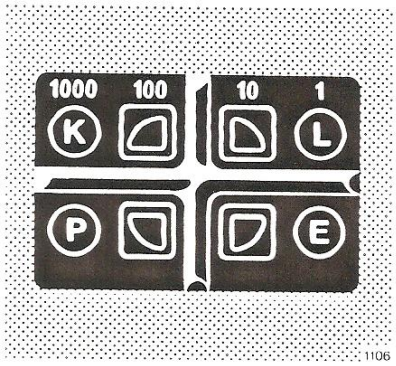

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Digital input

Digital input is possible only with:

- ZEIT ANK. WUNSCH – time desired arrival (push button)
- WEG BIS ZIEL – distance up to destination (push button)
- GESCHW. LIMIT – speed limit (push button)

1. Select information for which a digital input is required.
   Push respective button until the arrow for the desired information lights up.
2. Keep pushing button P until 4 or 3 zeros show up in display window.
3. Push buttons K, , , or L depending on digital value.
   Keep pushing each required button until the desired digit (numeral) shows up in display window.
4. Push button E – the zeros in front of digital value will disappear. The number is now in memory of computer.

Setting the clock time

1. Pull righthand knob on instrument cluster – the colon is flashing.
2. Set to actual clock time by means of buttons K, , , or L.
3. Pull righthand knob on instrument cluster once again – the colon stops flashing, the clock starts accurately to the second at the clock time set.

Adjustment according to time signal:

In range of 1:59 min before or after a full hour, pull righthand knob on instrument cluster at last tone of time signal – the clock will start at the full hour, accurate to the second.

Note:

Following interruption of the operating voltage, all the values in trip computer are cancelled.
When the circuit is again connected, the clock shows 12:00 and the colon flashes.
Set clock time, so that the trip computer is again operational.

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Description of individual informations

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ZEIT – AM ZIEL
(time – at destination)
Push button

Expected clock time upon arrival determined by computer.

No value is shown in display window if

- no value has been put in for WEG BIS ZIEL (distance up to destination),
- the set value for WEG BIS ZIEL (distance up to destination) has been attained already prior to arrival at destination,
- the trip took more than 24 hours.

ZEIT – AB START
(time – from start)
Push button

Driving time in hours and minutes determined by computer since the values in memory were cancelled the last time.
After 99:59 h the clock starts again at 0:00 h.

ZEIT – ANK. WUNSCH
(time – desired arrival)
Push button

Desired time of arrival to be put by driver into computer.

The desired driving time should be less than 24 hours.

If no value is in memory, the display window shows 4 hyphens.

For digital input push button P first, then put in the digits with buttons K, , and L and finally push button E.

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WEG – BIS ZIEL
(distance – up to destination)
Push button

Distance up to destination to be put by driver into computer.

If no value is in memory, the display window shows 4 hyphens.

If the put in value is exceeded while driving, 0 km will be displayed.

For digital input push button P first, then put in the digits with buttons K, , and L and finally push button E.

WEG – AB START
(distance – from start)
Push button

Driven distance covered by vehicle and determined by computer since last cancellation of values in memory of computer.

After 9 999 km a new start will be made at 0 km.

WEG – BIS TANK LEER
(distance – until tank is empty)
Push button

Driving range with existing tank contents determined by computer. The VERBR. TEILSTRECKE (consumption per section) is computed based on the last 10 minutes. If the driving conditions are changing (e.g. driving at full throttle, driving on gradients) the displayed value will also change.

Note:
When filling up, turn key in steering lock into position 0 or 1 or pull off.

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GESCHW. – SOLL DURCHSCHNITT (speed – nominal average)
Push button

Average speed determined by computer to be driven to arrive at destination at the desired time.

This requires putting in the values for WEG BIS ZIEL (distance up to destination) and ZEIT ANK. WUNSCH (time desired arrival).

The display window shows no value, if one of the programmed values has been attained already prior to arrival at destination.

GESCHW. – DURCHSCH. (speed average)
Push button

Average speed determined by computer since the values in memory were cancelled last.

GESCHW. – LIMIT (speed – limit)
Push button

Speed to be put into computer by driver.

If this speed is exceeded, the put in value flashes in display window and a warning buzzer sounds off.

Decisive for the above is not the speed shown on speedometer, but the speed determined by the trip computer.

The warning buzzer stops after approx. 4 seconds and the display returns to the information selected last.

The warning buzzer will also stop if another button is pushed within these 4 seconds. This will switch off the warning. A new warning will sound only after LIMIT (limit) has been selected and button P has been pushed.

LIMIT (limit) arrow flashes = warning buzzer not activated.

LIMIT (limit) arrow not flashing = warning buzzer activated.

For digital input, push button P first, then put in the digits with buttons, and L and finally push button E.

courtesy of 500Eboard.com

VERBR. – DURCHSCH.
(consumption – average)
Push button ◪

Average fuel consumption determined by computer since the values in memory were cancelled last.

Prior to starting a trip, cancel former value first with button Ⓚ.

On stopped vehicle and with the engine running a computation of the average consumption is not possible. The display window shows the max. value of 40.0 1/100 km.

VERBR. – TEILSTRECKE
(consumption – per section)
Push button ◪

Average fuel consumption determined by computer during the last 10 minutes of a trip. Upon cancellation of the values in memory, an engine specific value programmed in computer will be displayed.

The average fuel consumption can also be measured for a given distance or a given interval in time:

1. Push button ◪ – select TEIL-STRECKE (per section)
2. Push button Ⓟ – computation starts.
3. Push button Ⓟ once again – computation stops. The determined value is shown in display window.

For cancelling this value, push button Ⓔ or select another information.

VERBR. – MOM.
(consumption – momentary)
Push button ◪

Momentary fuel consumption determined by computer while driving. No value will be indicated as speed below 20 km/h.

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Input examples

Short distance operation
(without cancelling stored values during K operation)

Desired arrival – clock time: 12:25
Distance driven: 125 km
Speed – limit: 55 km/h

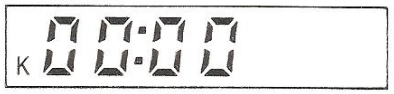
1. Turn key in steering lock to position 2 or start engine.
   Note:
   Any value displayed indicates the remaining distance of the previous trip.

2. Push button P until display changes.

3. Put in digital value for WEG BIS ZIEL (distance up to destination) (125):
   Push button ◪ once,
   push button ◺ twice,
   push button L five times.

4. Push button E until display changes.
   WEG BIS ZIEL (distance up to destination) is in memory.
   Arrow ZEIT ANK. WUNSCH (time desired arrival) lights up.
   Note:
   If a value for ANK. WUNSCH (desired arrival) is already in memory, the display will not automatically change to ANK. WUNSCH (desired arrival). To put in the newly desired arrival clock time keep pushing button ◪ as often as required until the arrow ANK. WUNSCH (desired arrival) lights up.

5. Keep pushing button P until display changes.



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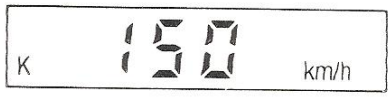
6. Put in digital value for ZEIT ANK. WUNSCH (time desired arrival) (1225):
   Push button K once,
   push button ◿ twice,
   push button ◹ twice,
   push button L five times.

7. Push button E.
   ZEIT ANK. WUNSCH (time desired arrival) is in memory.

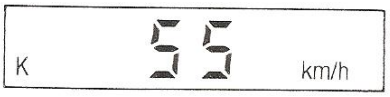
8. Select GESCHW. LIMIT (speed limit):
   Push button ◹ as often as required until arrow LIMIT (limit) lights up.
   The value put in last will be displayed.



9. Push button P until display changes.

10. Put in digital value for LIMIT (limit) (55):
    Push button ◹ five times.
    Push button L five times.

11. Push button E.
    LIMIT (limit) is in memory.



Note:

If the key in steering lock is turned back to position 0 after programming, push button K for a short moment prior to moving off.

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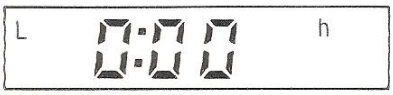
Long distance operation
(with cancellation of stored values during L operation)

Desired arrival – clock time: 22:45
Distance driven: 1230 km
Speed – limit: 150 km/h

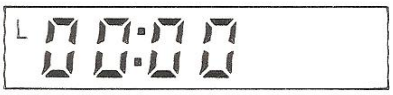
1. Turn key in steering lock to position 2 or start engine. Displayed value is the value in memory during K operation.

2. Keep pushing button L until display changes.
Arrow ZEIT AB START (time from start) lights up.



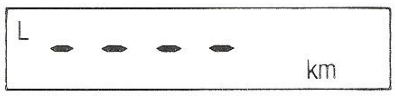
3. Select ZEIT ANK. WUNSCH (time desired arrival): Push button ◿.

4. Push button P until display changes.



5. Put in digital value ZEIT ANK. WUNSCH (time desired arrival) (2245):
Push button K twice,
push button ◿ twice,
push button ◺ four times,
push button L five times.

6. Push button E until display changes.
ZEIT ANK. WUNSCH (time desired arrival) is in memory. Arrow WEG BIS ZIEL (distance up to destination) lights up.



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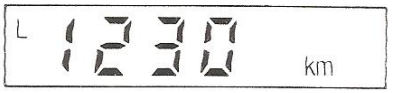
7. Push button P until display changes.

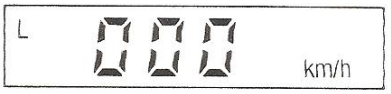
8. Put in digital value for WEG BIS ZIEL (distance up to destination) (1230):
   Push button K once,
   push button ◿ twice,
   push button ◺ three times.

9. Push button E.
   WEG BIS ZIEL (distance up to destination) is in memory.



10. Select GESCHW. LIMIT (speed limit):
    Keep pushing button ◹ as often as required until arrow LIMIT (limit) lights up.
    The value put in last will be displayed.

11. Push button P until display changes.



12. Put in digital value for LIMIT (limit) (150):
    Push button ◿ once,
    push button ◺ five times.

13. Push button E.
    LIMIT (limit) is in memory.

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Manual on the Bordcomputer (Reiserechner)

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The manual In German.

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Kombi-Instrument

Durch den Einbau des Reiserechners ändern sich die Anordnungen der Instrumente gegenüber den Angaben in der Bedienungsanleitung des Fahrzeuges.

1 Drehzahlmesser
2 Kraftstoffvorratsanzeige
3 Digitaluhr
4 Anzeige-Einheit des Reiserechners
5 Zugknopf für Digitaluhr Uhrzeit einstellen, siehe Seite 9

Anzeige-Einheit

4 Sektoren mit je 3 Informationen. Jeder Information ist ein Pfeil zugeordnet.

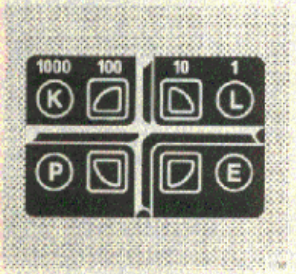
1 ZEIT
- AM ZIEL
- AB START
- ANKUNFT WUNSCH

2 WEG
- AM ZIEL
- AB START
- BIS TANK LEER

3 GESCHWINDIGKEIT
- SOLL DURCHSCHNITT
- DURCHSCHNITT
- LIMIT

4 VERBRAUCH
- DURCHSCHNITT
- TEILSTRECKE
- MOMENTAN

5 Sichtfenster
Angezeigt wird:
K = Kurzstreckenbetrieb oder
L = Langstreckenbetrieb,
Zahlenwert und Maßeinheit



Bedieneinheit

8 Tasten, teilweise mit Mehrfachfunktionen:

K – Kurzstreckenbetrieb wählen
– Gespeicherte Werte löschen
– Tausender-Ziffer eingeben

– ZEIT-Informationen abrufen
– Hunderter-Ziffer eingeben

– WEG-Informationen abrufen
– Zehner-Ziffer eingeben

L – Langstreckenbetrieb wählen
– Gespeicherte Werte löschen
– Einer-Ziffer eingeben

P – Programmiertaste
Vor Zahleneingabe drücken

– GESCHWINDIGKEIT-Informationen abrufen

– VERBRAUCH-Informationen abrufen

E – Eingabeabschlußtaste
Nach Zahleneingabe drücken