

Figure 2: Dashboard layout for models with Stack instruments and full windscreen

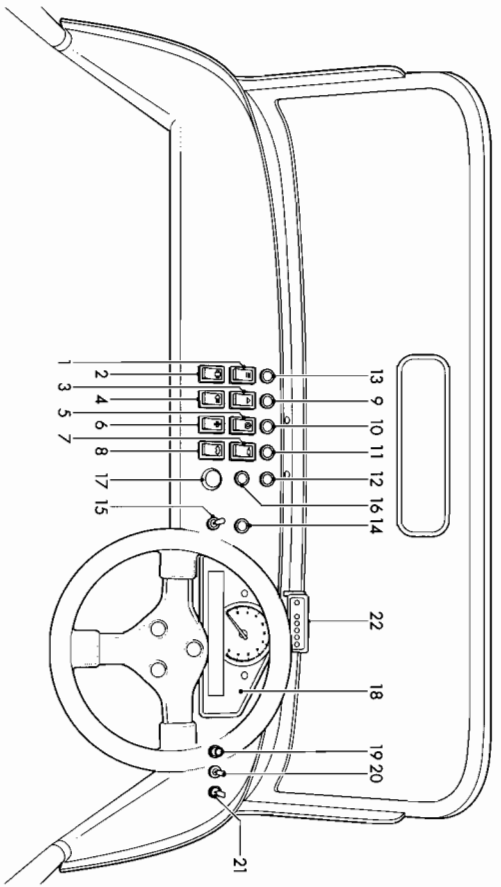
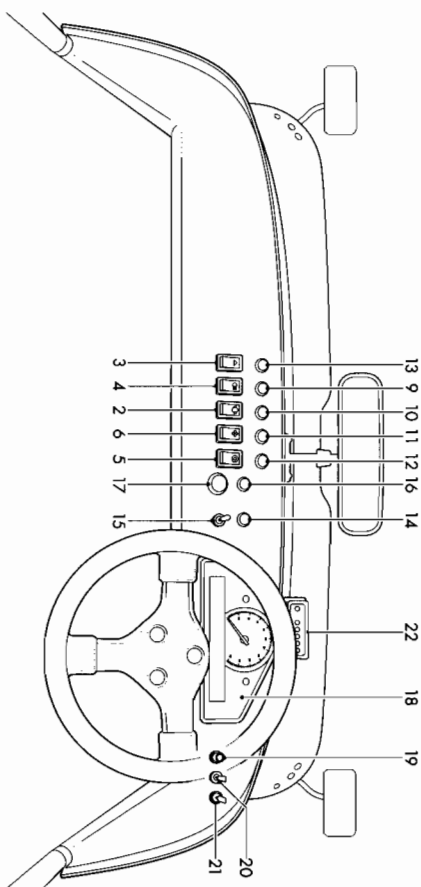


Figure 3: Dashboard layout for models with Stack instruments without windscreen



Controls

1. Heated Windscreen.
2. Brake Fail.
3. Hazard.
4. Rear Fog.
5. Lights.
6. Header.
7. Windscreen Washers.
8. Windscreen Wipers.
9. Stack Switch 1.
10. Stack Switch 2.
11. Stack Switch 4.
12. Stack Switch 3.
13. Shift Light Switch.
14. Indicator Warning Light.
15. Indicator Switch.
16. Main Beam Warning Light.
17. Push Button Starter.
18. Stack Display.
19. Horn.
20. Dipswitch.
21. Headlamp Flash.
22. Gear change lights (optional).

Stack Display System

The Stack ST8130 road car display system monitors and displays a range of performance parameters, needed for effective car and driver management in most driving situations.

ST8130 combines an analogue tachometer with a digital display for the following performance parameters:

1. Vehicle speed (MPH) or (KM/H)
2. Engine speed (RPM)
3. Oil pressure (BAR)
4. Oil temperature (°C)
5. Water temperature (°C)
6. Fuel level (litres)
7. Battery Voltage (volts)
8. Lap times (last completed and best) (optional) available from after-sales.

An alarm light alerts the driver that a warning condition has been detected. The warning conditions are based on pre-set alarm values for the above listed performance parameters 3-7. When the warning condition alarm light is switched on, a warning message is shown on the digital display to identify the condition. It is possible to enable or disable the warning system for each parameter individually. The warning message can be cancelled by pressing any switch. Doing this does not turn off the warning condition alarm light, which stays on until the condition no longer applies.

The Display Module

The display module consists of an analogue tachometer, two indicator lights, and a digital display panel.

Operating the Display System

The digital display has five display levels each showing three parameters and their values. The levels can be changed by pressing switch 3.

Display Level 1

- Level 1 shows:
- Fuel level
 - Current speed (mph or km/h)
 - Trip indicator
 - Odometer
- Press switch 3 to see level 2

Display Level 2

- Level 2 Shows:
- Oil temperature (Deg C or F)
 - Current speed (MPH or KM/H)
 - Oil pressure (lb ft or bar)

Display Level 3

- Display level 3 show:
- Water temperature (Deg C or F)
 - Current speed (MPH or KM/H)
 - Oil pressure (lb ft or bar)
- Press switch 3 to change to level 4.

Display Level 4

- Display level 4 shows:
- Current speed (MPH or KM/H)
 - Battery Voltage (Bar)
 - Ambient air temperature is shown but not utilised in the set-up. This will default to a reading of -999
- Press switch 3 to change the display to level 5 if you have the lap timing kit installed (optional) or back to level 1.

Display Level 5 (optional)

- Display level 5 shows
- Number of current lap
 - Current speed (MPH or KM/H)
 - Last lap time
 - Previous best lap time
- Press switch 3 to change the display back to level 1. Lap time can be recorded manually using Switch 4 or with the optional lap timing kit.

Peak values (Tall Tales)

The system can display the peak values that have been recorded during a run for all the monitored parameters. Peak values are updated only when the engine speed has exceeded its "gate value" for RPM for at least one-second. This allows the values to stabilise. Blipping the engine may not be enough to update the peak values. The gate value is a predefined RPM value that is used to control when the system updates the peak values. This is to prevent abnormal peak values from being recorded when, for example, the engine is either not running, is idling, or is being warmed up. The system stores either a maximum or a minimum value as the peak value, as in the following table:

Channel	Units	Default	Adjust
Oil Pressure	Ps	20	No
Oil Temperature	°C	130	No
Water Temperature	°C	100	No
Fuel level	litres	5	No
Battery	Volts	11.5	No
Engine Pulse	Cycles	4	No
Whisk Pulse	Pulse/Rew	4	No
CrashPm	RPM	1200	No
Shift Light	RPM	9000	No
Whisk Circum	mm	1000	Yes

NOTE: The wheel circumference requires manual setting for self builds, and the shift light requires manual setting for non R500 taking up the option.

Displaying the Peak Values

Press and hold switch 1 to show the peak values for the parameters currently being displayed. Release the switch to return to the normal display.