

SONETT V4

**Supplement to Owner's
Manual 787992**



SAAB AKTIEBOLAG
LINKÖPING – TROLLHÄTTAN SWEDEN

SAAB U.S.A. INC.
100 Waterfront Street
NEW HAVEN, CONN. 06506
Telephone 203-469-2331

Foreword

This supplement to Owner's Manual 787992 describes the 1969 model of the SAAB Sonett V4.

The supplement deals exclusively with the differences between this model and the previous one, thus it should be read together with the manual mentioned above.

Yours truly,
SAAB AKTIEBOLAG
Trollhättan, November 1968

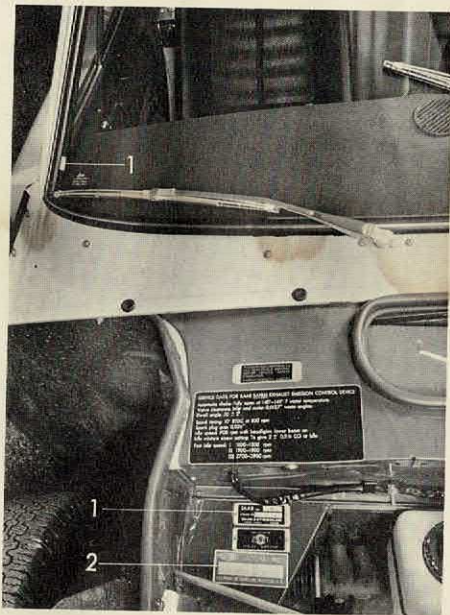


Figure 1. Location of chassis number and paint color code signs

1. Chassis number
2. Paint color code sign

Ignition lock

The ignition lock has three positions.

1. Neutral position, the key can be taken out in this position.
2. Ignition on. The ignition switch supplies current to fan motor, windshield wipers, windshield washer, horns, fuel gauge, temperature gauge, direction indicators, back-up lights, and all indicator lights.
3. Starting position. When starting, **push** the key inwards at position «2» and turn it clockwise. The starting position has a spring return action.

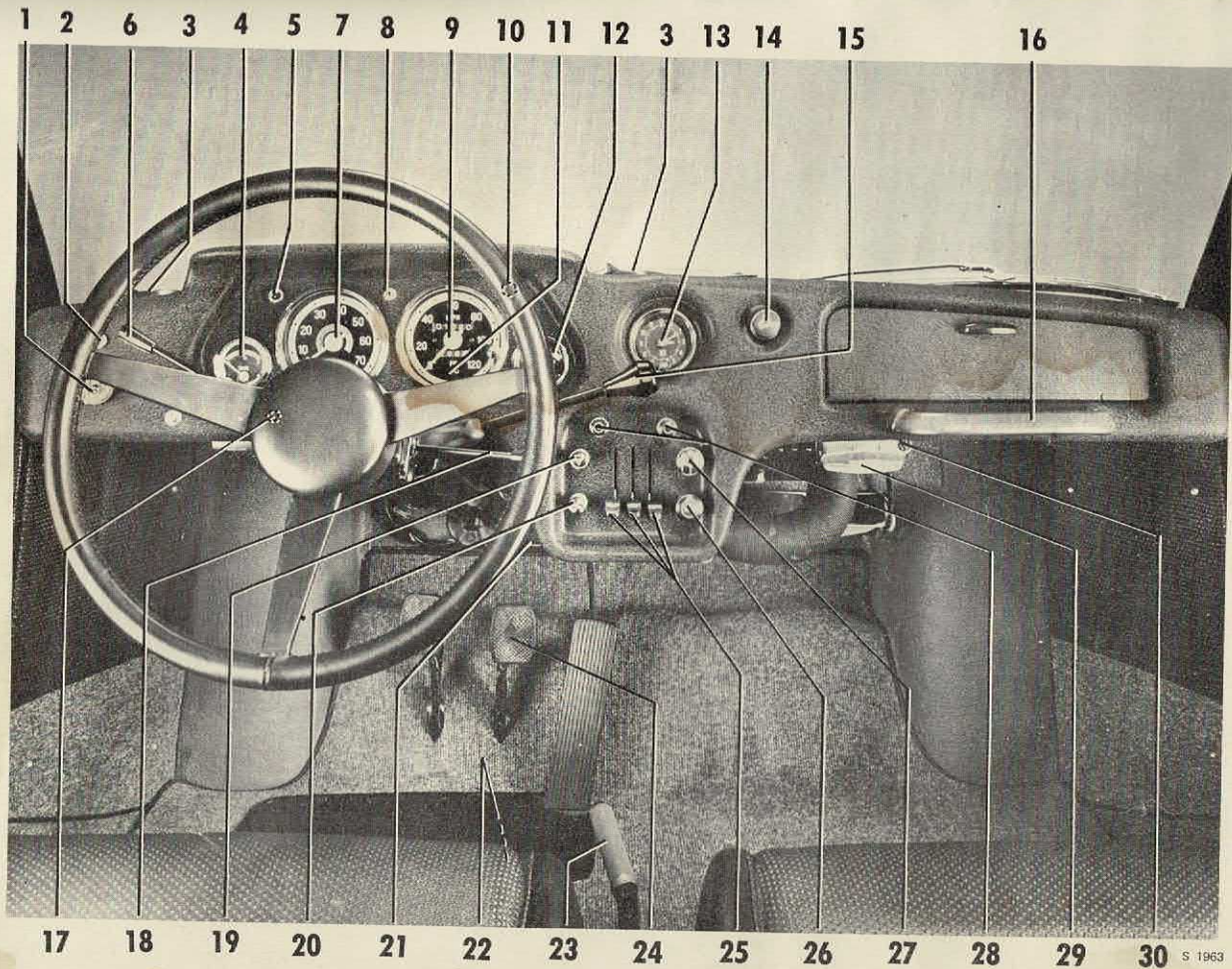


Figure 2. Instruments and controls

Instruments, controls

1. Ignition lock, see page 3.
2. Charge indicator light. Glows orange when the alternator is not charging.
3. Defroster vents. Adjustable by turning.
4. Fuel gauge. The amount of fuel in the tank is shown when the ignition is on.
5. Indicator light, oil pressure.
6. Signal horn lever.
7. Tachometer. The green zone shows the permissible number of revolutions. The tachometer is electric.
8. High beam indicator light. Shows a blue light when the headlights are on with the beam undimmed.
9. Speedometer with odometer and trip-meter. The speedometer is graduated in m.p.h. or km/h. The odometer shows the distance covered in miles (kilometers).
10. Direction indicator light. Flashes green in time with the indicators.
11. Brake warning light will glow red as soon as the brake pedal travel becomes too large due to any of the following faults:
 - a) Leakage on one of the two brake system circuits.
 - b) Rear brakes need adjustment.If the warning light glows the cause should be traced, and then the eventual fault remedied by an authorized SAAB dealer.
12. Temperature gauge.
13. Electric clock with setting screw. The regulating screw is at the back of the clock.
14. Cigarette lighter.
15. Gear lever. When engaging the reverse gear, the back-up lights are automatically lighted.
16. Grab bar.
17. Fuel indicator light. Glows red when there is less than 2 US gals. (7 liters) left.
18. Direction indicator switch with headlight flasher and dimmer switch when moving the lever towards the wheel.
19. Switch for windshield wipers, 2 speeds, and windshield washer. To start the wipers, pull out the knob. The first position is for low speed, and the second position for high speed. The windshield washer works when the knob is pulled fully out.
20. Heater fan switch with two speeds.
21. Free Wheel Drive control. To lock out the Free Wheel Drive action, pull the handle right out.
22. Seat adjustment.
23. Handbrake.
24. Switch for brake warning light.
25. Heater controls. For details of operation, see page 6.
26. Warning flasher switch.
27. Switch for headlights and instrument panel lights. When the knob is pulled out to the first stop, the side and rear lights as well as the number plate light are lighted. Pulling the knob all the way out lights the headlights also. The intensity of the instrument panel lights may be adjusted by turning the knob

when the switch is in an «on» position.

28. Switches for extra equipment.
29. Map reading light.
30. Fresh air ventilation control. When the knob is pulled out the flaps are closed.

Ventilation and heating controls

The levers shown in Figure 3 are used to control the flow of warm or cool (outside) air to the interior of the car.

The lever marked TEMP sets the thermostatically regulated water valve to heat the incoming air to the desired temperature. This temperature remains constant at the preselected level regardless of driving speed and whether the fan is working or not. Maximum heating effect is obtained when the lever is pushed all the way up. When the lever is all the way down, the heater is switched off.

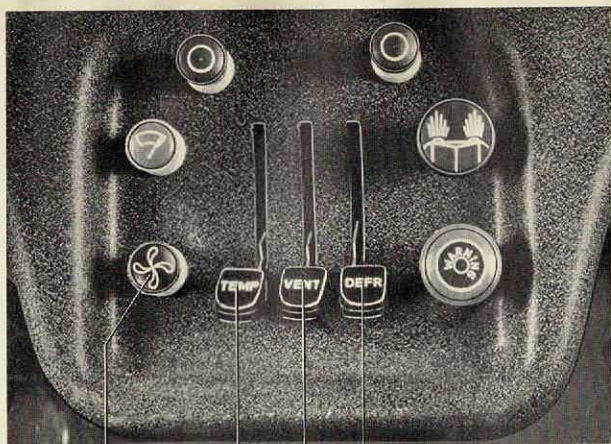
The lever marked VENT controls the supply of air to the floor and sides. The air vents are open when the lever is up, closed when it is down.

The lever marked DEFR controls the supply of air to the inside of the windshield. Here, too, the up and down positions correspond to open and shut respectively.

The fan motor can be run at two speeds: full speed is obtained when the knob is pulled fully out, and half speed when the knob is in the first position.

Use the fan when driving at low speed

At speeds in excess of about 30 m.p.h. (50 km/h), a forced draft is generated which is normally sufficient to enable the air heater to function satisfactorily. Thus the fan need only be used when the car is stopped or moving at low speed. Adequate ventilation of the car's interior is provided by the vents at the rear with the window closed. Fresh air may also be admitted into the car via a separate inlet located to the right of the heater inlet at the floor. The flap is operated by a control above the map reading lamp. Knob pushed fully out = flap closed. See pos. 30, Figure 2.



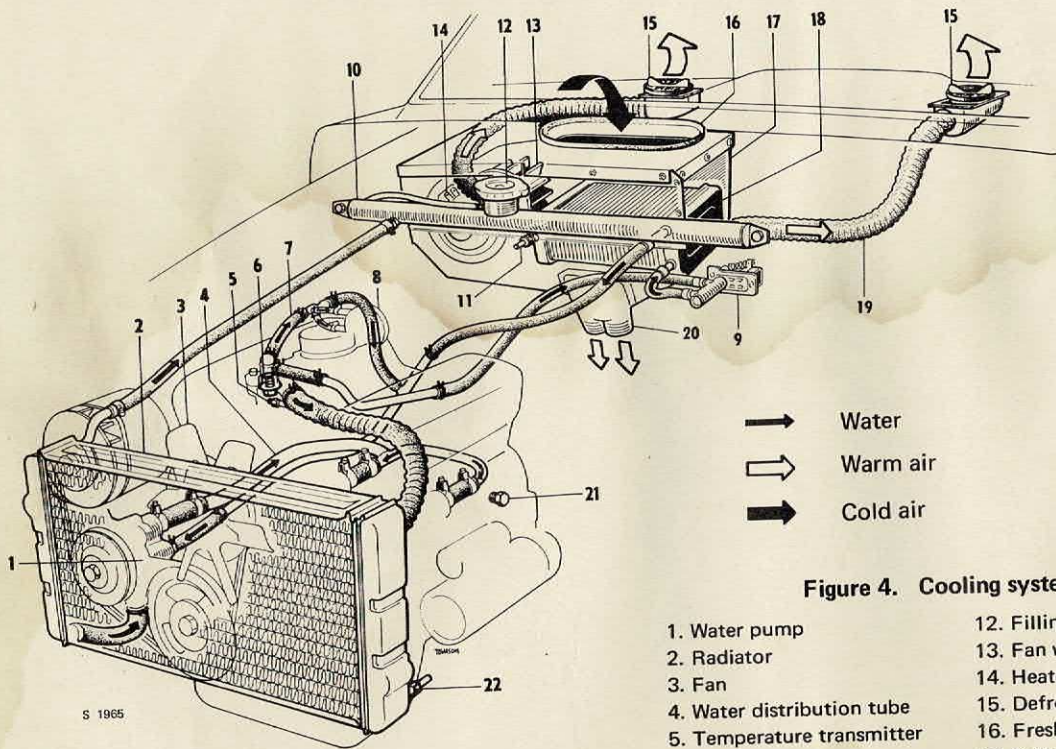
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Figure 3. Heater controls

1. Heater fan switch
2. Heater control
3. Air control, floor
4. Air control, defroster

Tire pressure

	Front	Rear
Light load (2 pers.)	24 psi (1.7 kp/cm ²)	22 psi (1.6 kp/cm ²)
Full load (455 lbs)	24 psi (1.7 kp/cm ²)	23 psi (1.6 kp/cm ²)



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Figure 4. Cooling system

- | | |
|----------------------------------|-------------------------------|
| 1. Water pump | 12. Filling cap |
| 2. Radiator | 13. Fan wheel |
| 3. Fan | 14. Heater fan motor |
| 4. Water distribution tube | 15. Defroster jet, adjustable |
| 5. Temperature transmitter | 16. Fresh-air intake |
| 6. Thermostat | 17. Collector box |
| 7. By-pass | 18. Heater core |
| 8. Water jacket, automatic choke | 19. Defroster hose |
| 9. Thermostat valve | 20. Air inlet |
| 10. Expansion tank | 21. Drain plugs (2) |
| 11. Bleeding nipple | 22. Drain valve |

Cooling and heating system

General

The capacity of the cooling system incl. fresh-air heating element is approx. 8 US quarts (7.6 liters).

Anti-freeze solutions

During the cold season an anti-freeze must be added to the water in the radiator; pure water would freeze and expand, cracking the radiator and cylinder block. Ethylene glycol is recommended as an additive. Methylated alcohol is not very suitable, due to its low boiling point, especially with the high radiator temperatures needed for good heater operation in wintertime.

Glycol has a boiling point above 212°F (+100°C); therefore only water need be added when replenishing the system. A disadvantage with glycol is that, like methylated spirit, it may spoil the paintwork of the car. It also reduces the heat dissipation power of the water. Experience has shown that too »lean» glycol mixtures (10–20%) may be unfavorable from the rust-protecting point of view. Consequently, it is recommended that the glycol portion should be 40–50% i.e. 3.2–4.0 US quarts (3.0–3.8 liters). This solution provides protection down to the following temperatures below zero: 13/33°F (25/38°C). Renew the anti-freeze solution once a year. **Do not use it in summertime.**

Electrical system

Battery

WARNING

Don't misconnect the battery. Connecting the battery to the wrong direction of current, even for a moment, means damage to the diodes of the alternator. Connect the positive cable to the positive pole of the battery, and the negative cable (ground lead) to the negative pole. In case of connecting occasionally an external battery to the battery of the car, the positive pole shall be connected to the positive pole and negative pole to negative pole. The battery must not be connected to or disconnected from the electrical system of the car while the engine is running. When quick-loading the battery, the positive cable of the battery shall be disconnected.

Bulb replacement

Front direction indicator lights

The bulbs in the front direction indicator lights are replaced in the same way as »Other lamps».

Wiring diagram

The range of the electrical system is shown by the wiring system on the next page. To simplify the identification, the wires have been covered with insulation of different shades, as follows:

Black	31, 85, LS.
Red	1, 6, 15, 30, 30a, 49t, 50, 54, 54i, 54n, 54r, 54s, 54t, 61, 72, 86, 87, D+.
White	24b, 49b, 55, 56a.
Green	49, 53a, 58, 58b, 58d.
Yellow	8, 24a, 49p, 53f, 54h, 56b, 56h, 73.
Blue	49b, 56f.
Grey	14, 49a, 53b, 56, 58t.
Brown	3, 5, 13, 83, 137.

Key to numbers in Figure 5

1. Direction indicators and parking lights
2. Headlights
3. Horn
4. Voltage regulator
5. Alternator
6. Ignition coil
7. Spark plugs
8. Distributor
9. Battery
10. Starter
11. Temperature transmitter
12. Oil pressure switch
13. Windshield washer pump
14. Relay, signal
15. Manoeuvre relay, light
16. Wiper motor
17. Heater fan motor
18. Brake warning contact
19. Stop light switch
20. Back-up light switch
21. Fuse box
22. Cigarette lighter
23. Electric clock
24. Temperature gauge
25. Direction indicator repeater light
26. Brake warning light
27. High beam indicator light
28. Indicator light fuel
29. Oil pressure warning light
30. Charge indicator light
31. Speedometer, odometer and trip meter
32. Tachometer
33. Fuel gauge
34. Ignition and starter switch
35. Map reading light with switch
36. Warning flasher relay
37. Spotlight switch (extra equipment)
38. Headlight switch and instrument illumination rheostat
39. Warning flasher switch
40. Fog light switch (extra equipment)
41. Windshield wiper and washer switch
42. Heater fan switch
43. Fuel transmitter
44. Direction indicator switch with headlight flasher and dimmer switch
45. Horn lever
46. Flasher relay
47. Map reading light switch
48. Stop lights and direction indicator lights
49. Tail lights
50. Back-up lights
51. Number plate light
52. Side position lights

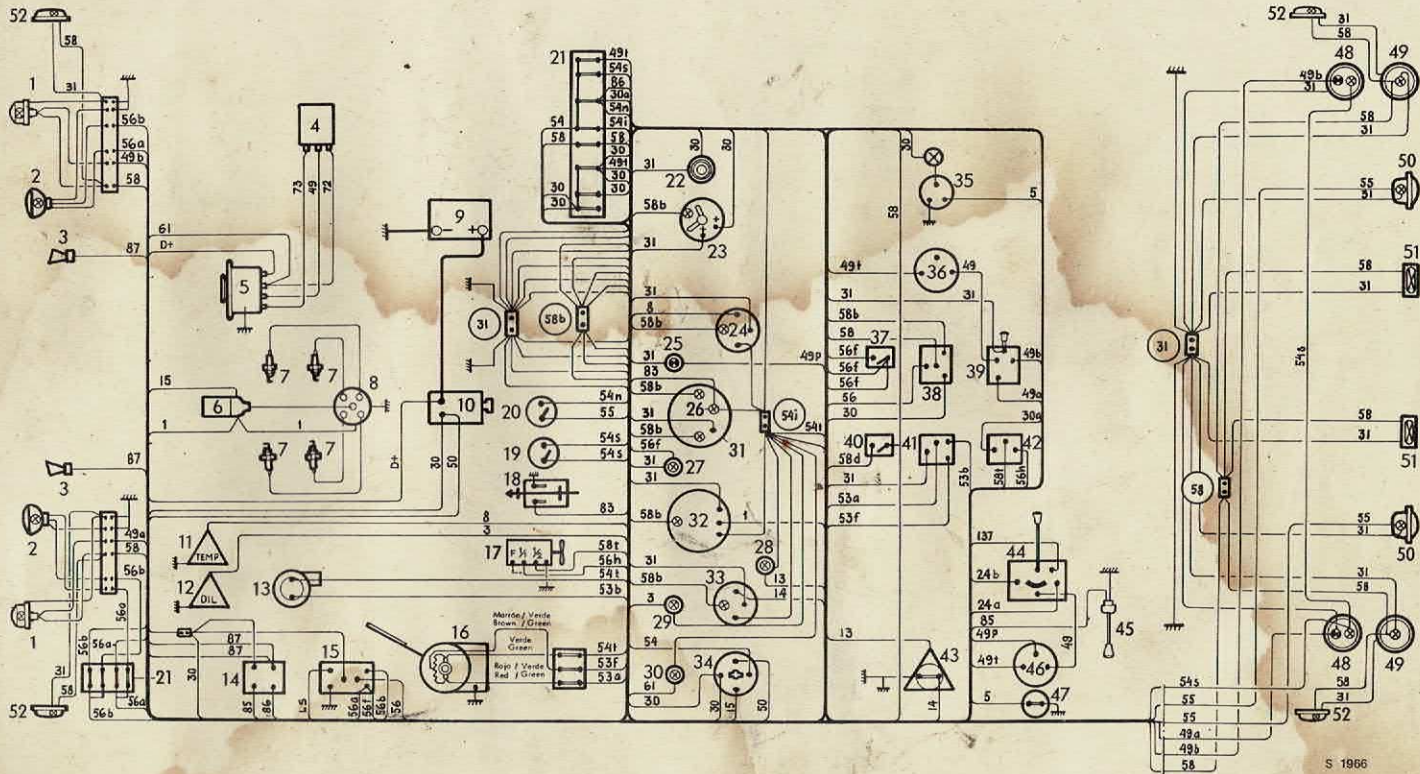


Figure 5. Wiring diagram
 Cable number refer to table on opposite page.

Technical Data

General

Body	two-seats, GT-type
Overall length with bumpers	12 ft. 5 in. (3,780 mm)
Overall width	5 ft. (1,525 mm)
Overall height, with driver	3 ft. 10 in. (1,160 mm)
Road clearance at curb weight	approx. 5 in. (125 mm)
Track, front and rear	4 ft. 2.5 in. (1,232 mm)
Wheelbase	7 ft. 1 in. (2,150 mm)
Turning circle diameter	31 ft. 6 in. (9.6 meters)
Curb weight incl. fuel, water, tools and sparewheel	1,700 lbs. (775 kg)
Weight distribution	
Fully loaded, front	56%
Hill-climbing performance at curb weight incl. driver:	
2nd gear	39%
3rd gear	21%
4th gear	12%

Cooling system

Capacity, incl. heater	approx. 8 US quarts (7.6 liters)
Thermostat, opens at	approx. 181°F (83°C)

Shock absorbers

Type	hydraulic-telescopic
Maximum stroke, when mounted	
Front wheels	3.2 in. (82 mm)
Rear wheels	4.2 in. (106 mm)

Wheels and tires

Rim type	»wide base» disk wheels
Rim dimensions	4.5J x 15"
Bolts per wheel	5
Tires: Radial, dimensions	155 x 15"

Tire pressure 155 x 15"

	Front	Rear
Light load (2 pers.)	24 psi (1.7 kp/cm ²)	22 psi (1.6 kp/cm ²)
Full load (435 lbs)	24 psi (1.7 kp/cm ²)	23 psi (1.6 kp/cm ²)

Front Wheel Alignment

Toe-in, measured on rim	0.04 in. ±0.04 (1 ±1 mm)
Camber	0 ±1/4°
Caster	2 ±1/2°
»King pin» inclination	7 ±1°

Electrical system

Voltage	12 V
Battery capacity	44 amp/h
Starter	1 HP
Alternator, max. charge	35 A
Spark plugs:	
Thread	M 14 x 1.25
Electrode gap	0.025 in. (0.6 mm)
Heat range:	
Auto-Lite AG 22	
Bosch W200 T30 or W230 T30	
Champion N-9Y or N-6Y	
NGK BP 7 E	
Breaker point gap, distributor	0.016 in. (0.4 mm)
Ignition timing, at 800 rpm, vacuum hose disconnected	10° BTDC
Firing sequence	1-3-4-2

Bulbs	Watts	SAAB No.	Philips No.
2 Headlights, Sealed Beam (USA)		712910	
2 Parking lights and flasher, front	21/5	709683	1034
2 Flasher and stop lights, rear	25	715471	1073
2 Tail light	5	715472	12821
2 Number plate light	5	708419	12844
2 Back-up light	25 cp	713343	12325
1 Lighting, clock	4	715730	12929
1 Lighting, tachometer	2	715489	12913
11 Instrument and control lights	2	708434	12829
1 Map reading light	5	708419	12844
4 Side position lights	5	734225	
12 Fuses (25 mm)	8A		

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