

# Saab V4 Tune-Up

## TUNE-UP (Cont.)

### IDLE SPEED & MIXTURE ADJUSTMENT

With engine at normal operating temperature, connect a tachometer and an exhaust gas analyzer. Adjust idle speed to 500 RPM. Turn mixture screw in or out to obtain smoothest possible idle at specified CO level. **NOTE** — After making mixture adjustment, wait 10 seconds before taking CO reading. Repeat adjustments until CO level is correct. Adjust idle speed to specifications.

| Idle Speed (RPM) & CO Level (%) |     |         |
|---------------------------------|-----|---------|
| Application                     | RPM | CO%     |
| All Models                      | 900 | 1.5-2.0 |

### COLD (FAST) IDLE RPM

**1967-68 Model Procedure** — Remove air cleaner and allow engine to reach normal operating temperature. Switch headlights on and connect suitable tachometer to engine. Adjust engine to correct idle speed and close choke flap slightly to allow contact with ratchet wheel in automatic starting system. Hold choke flap in this position and continue pressing toward ratchet wheel. Open throttle flap slowly to allow choke flap to move to next position. Carefully release throttle flap, and then choke flap. Do not touch throttle control at this point or ratchet

wheel will revert to neutral position. With throttle positioned in this manner, lengthen rod to increase fast idle speed or shorten rod to decrease speed.

**1969-72 Model Procedure** — With engine at normal operating temperature and air cleaner removed, set throttle valve stop on third step of fast idle cam. Adjust fast idle RPM by bending throttle valve stop to suitable position.

| Application                        | Idle RPM  |
|------------------------------------|-----------|
| 1967 Models (First step of cam)    | 1100-1300 |
| 1968 Models (First step of cam)    | 1300      |
| 1969 Models (Third step of cam)    | 1900-2100 |
| 1970 Models (Third step of cam)    | 1700-1900 |
| 1971-73 Models (third step of cam) | 1900-2000 |

### FUEL PUMP PRESSURE

|                    |                                    |
|--------------------|------------------------------------|
| Pressure (At Idle) | 3.4-4.3 psi<br>(.24-.30 kg/sq. cm) |
|--------------------|------------------------------------|

### EMISSION CONTROL SYSTEM

See Mitchell Manuals' Emission Control Manual.

## IGNITION

### DISTRIBUTOR

| Application    | Bosch Part No.  |
|----------------|---|
| 1967-68 Models | 0 231 146 044<br>0 231 146 024<br>0 231 146 033<br>0 231 146 073<br>0 231 146 084 |
| 1969 Models    | 0 231 146 084   |

### DISTRIBUTOR (Cont.)

| Application   | Bosch Part No.                 |
|---|--------------------------------|
| 1970-72 Models  | 0 231 167 039                  |
| 1973 Models   | 0 231 176 001<br>0 231 167 039 |
| Other Data & Specifications — See Tune-Up & Bosch Distributors in ELECTRICAL Section. |                                |

## CARBURETION

Other Data & Specifications — See Solex or Motorcraft Carburetors in CARBURETION Section.

### CARBURETORS

| Solex 1-Bbl.                                |  | Solex Model No. |
|---|--|-----------------|
| Application                                 |  |                 |
| 1967 Models<br>(To Chassis No. 434173)      |  | 28-32 PDSIT-7   |
| 1967-68 Models<br>(From Chassis No. 434173) |  | 32 PDSIT-4      |

| Motorcraft 1-Bbl. |  | Motorcraft Model No. |
|-------------------|--|----------------------|
| Application       |  |                      |
| 1969-73           |  | 1250                 |

### AUTOMATIC CHOKE

**All (Exc. 1973 Models)** — Set index mark on thermostatic spring housing so it is in line with center mark on choke housing.

## ELECTRICAL

### BATTERY

12 Volt — Negative Ground.

| Application | Amp. Hr. Capacity |
|-------------|-------------------|
| All Models  | 60                |

**Battery Location** — Located on right side near inner fender.

### STARTER

| Application | Bosch Part No.               |
|-------------|------------------------------|
| 1967-72     | 0 001 311 024, 0 001 208 029 |
| 1973        | 0 001 311 023                |

Other Data & Specifications — See Bosch Starters in ELECTRICAL Section.