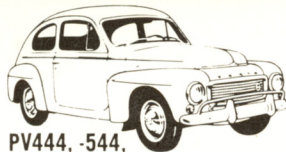


VOLVO

1957-63 PV444, -445; P210, PV544, 122S



PV444, -444,



122S

HOOD RELEASE: Inside



PV445, P210

SERVICE EVERY 750 MILES EXCEPT AT MILEAGE ■ SYMBOLS SHOWN

COOLING SYSTEM

Quarts
With Heater
All models 9
Cooling system pressure, 4 pounds

Steering Gear (plug) 80 GL4

3 Fuel Pump Sediment Bowl and Screen ... Clean
Also clean screens in S.U. carb. float bowl unions

Oil Fill Cap Wash

Crankcase Dipstick Check level

Distributor Shaft (oil cup) MO
Wick under rotor Sparingly MO

Brake Master Cylinder (cap) HB
Brake and clutch master cylinders on model 122S
Fill to bottom of filter screen or to 1/2 inch below
top of fill hole

Steering Linkage and
Front Suspension .. (4*, 12 or 18 fittings) MG

* Model 122S, fittings on upper and lower ball
joints only

Y Steering linkage joints without fittings. MG
Fill cavity between ball joint and rubber cover
using flat nozzle grease gun adapter. Fold up
rubber cover

3 Clutch Shaft MG
122S, no lubrication

3 Pedal Shaft MG
122S, no lubrication

TRANSMISSION

GL4
Above +90°, 90; below +90°, 80
30 GO may be used
Maintain level to fill plug hole
CAPACITY 3-speed, 1 pint; late models with syn-
chronized 1st speed, 1 1/2 pints; late 4-speed, 1 1/2
pints; early 4-speed, 2 pints

12 DRAIN and REFILL

3 Universal Joints MG
Some, no lubrication

3 Universal Joint Spline MG
Located in front of joint on model 122S

C Hand Brake Cable Guides ... Coat sparingly MG

3 Universal Joint MG
Some, no lubrication

25 Rear Wheel Bearings Repack MG
Necessary to remove axle shafts. Mechanic's job

DIFFERENTIAL

GL4
Above +90°, 90; below +90°, 80
Maintain level to fill plug hole
CAPACITY 2 3/4 pints

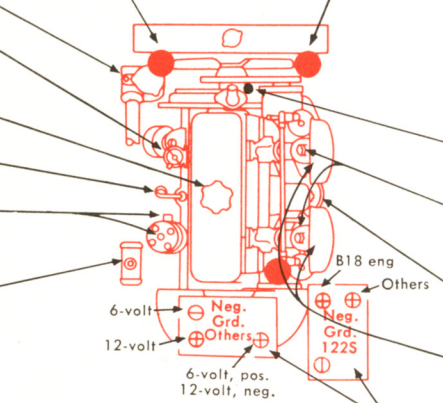
12 DRAIN and REFILL

GAS TANK Gallons
122S 12
All other models 9 1/4

TIRES Pressure Front Rear
5.90-15, PV444, PV544, 122S 21 24
6.40-15, PV445, P210 21 24
With heavy load 21 28



Additional drain at
heater core, ex. 122S at
water tube, right front



CRANKCASE

MS
Above +90° 30 10W-30*
Above +32° 20-20W 10W-30*
Below +32° 10W 10W-30*

* 10W-30 is preferred
CAPACITY B18 engine, 3 1/2 quarts; others, 3 quarts
DRAIN and REFILL

See Service Instructions, page 4

Water Pump MG **3**
B18 engine, no lubrication

Carburetor Dashpots 20-20W MO **3**
S.U. carburetors only. Unscrew caps, fill only to
top of inner hollow shafts

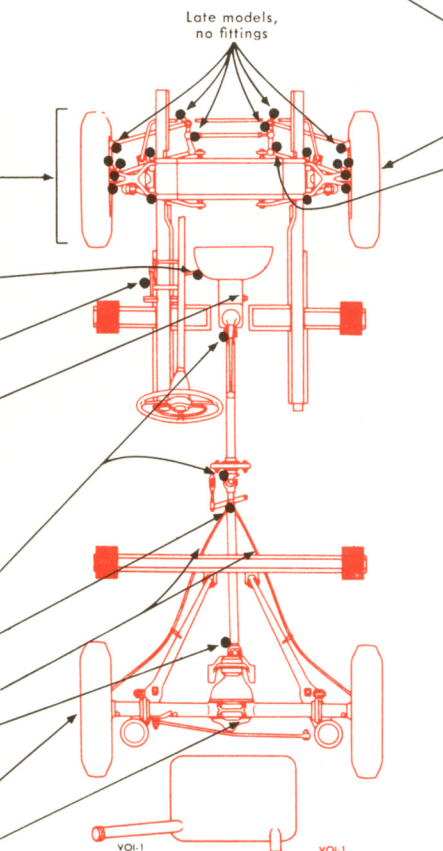
Oil Filter Replace **6**
70-hp models, at left front

Air Cleaner Elements Service
Dry type Replace **12**
Wire gauze Wash and oil MO **3**

Battery Test and fill

Front Wheel Bearings Repack MG **12**

Idler Arm MG
Some models, no lubrication



SERVICE AS SHOWN

3 Every 3,000 miles
Clean fuel pump sediment bowl and screen;
also screens in carburetor float bowl
unions
Lubricate clutch shaft
Lubricate pedal shaft
Lubricate universal joints and spline
Lubricate carburetor dashpots
Wash and oil wire gauze air cleaner
elements

6 Every 6,000 miles
Lubricate water pump
Replace oil filter, add extra quart oil; except
B18 engine, add extra pint oil

12 Every 12,000 miles
Drain and refill transmission
Drain and refill differential
Replace dry type air cleaner elements
Repack front wheel bearings

25 Every 25,000 miles
Repack rear wheel bearings

Y Every year
Lubricate steering linkage joints without
fittings

C Conditional service
Coat hand brake cable guides as required

- Position for lift adapter
- Lubrication fitting
- Cooling system drain

FOR SAFETY, ALWAYS CHECK THE BATTERY, BRAKE SYSTEM, FAN BELTS, LIGHTS, MUFFLERS, TIRES AND WIPER BLADES



GL4 Texaco Multigear Lubricant EP
GO Texaco Motor Oil
HB Hydraulic Brake Fluid, Heavy-Duty SAE 70R3

MG Texaco Marfak Multi Purpose 2
MO Havoline, Havoline Special 10W-30 or Texaco
MS Havoline or Havoline Special 10W-30

TUNE-UP DATA

See Service Instructions for Procedure

BATTERY

	AABM Group No.	Amp. Hrs.
B18 engine	24	60
All others	19	84

COMPRESSION PRESSURE

(at cranking speed with throttle open)	psi
60 bhp B16A engine	135-150
70 bhp B14A engine	142-156
85 bhp B16B engine	142-156
90 bhp B18D engine	170-200

SPARK PLUGS

B18D engine: Bosch W175T1; Champion L-7

Others: Bosch W175T3; Champion J-6*

Gap: .028"

Torque: 14 mm plug; with copper gasket, 25 ft. lb.; with steel gasket, 29 ft. lb.; 10 mm plug, 11 ft. lb.

* Early 70 bhp engine, 10 mm Y-4-A

IGNITION POINTS

Autolite and Bosch

Gap: Autolite .018"-.022"; Bosch .016"-.020"

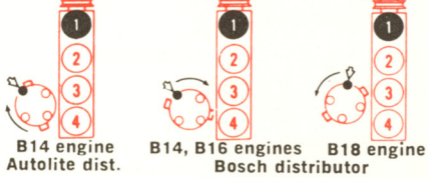
Dwell angle: Autolite 47°; Bosch: B18 engine, 60°-63°; others, 47°-53°

CONDENSER

Autolite and Bosch

Capacity: Autolite .20-.25 mfd; Bosch .20-.25 mfd

Cylinder Numbering Sequence



B14 engine
Autolite dist.

B14, B16 engines
Bosch distributor

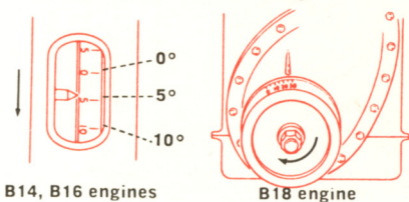
B18 engine

Firing Order: 1, 3, 4, 2

TIMING PROCEDURE

1. Connect tachometer
2. Connect timing light to No. 1 spark plug or distributor cap tower
3. Disconnect distributor vacuum line
4. Set engine speed to 1500 rpm
5. Observe timing marks at flywheel opening and turn distributor to obtain recommended setting as follows:
 - B14A engine, 20°
 - B16A engine, 21°
 - B16B engine, 23°
 - B18D engine, 22°-24°
6. Reconnect vacuum line and reset idle to proper idle speed

Timing Mark and Setting



B14, B16 engines

B18 engine

Timing Setting (Before Top Dead Center):

B14A engine, 2° static*

B16A engine, 4° static*

B16B, B18 engines, 6° static*

* Engine should be timed at 1500 rpm. See

Timing Procedure Section

FUEL PUMP

AC type UG

Pressure: B18 engine, 1½-2½ lb.; others, 2-3½

lb., all at idle rpm

Volume: 16 ounces in 1 minute at idle rpm

CARBURETOR ADJUSTMENT

Idle Mixture

(initial turns)

S.U. Twin 1-bbl. H-2 1

Twin 1-bbl. H-4 1

Twin 1-bbl. HS-6 1

ZENITH

1-bbl. 34VN 1-2

ENGINE IDLE SPEED

B16A engine, 450-550 rpm

Others, 500-700 rpm

VALVE CLEARANCES

(engine hot and running)

B16A engine: Intake .016"; exhaust .018"

B18D engine: Intake .016"-.018"; exhaust .016"-

.018"

Others: Intake .020"; exhaust .020"-.022"

BRAKE ADJUSTMENT

With the brakes cold, if the brake pedal can be

depressed more than 2", the need for service is

indicated

Late 122S, use disc brakes on front. No adjust-

ment necessary

Adjust the brakes as follows:

PV544, 122S with drum brakes front and rear, or

rear only

1. Use a suitable tool inserted into adjustment

opening in backing plate to expand shoes until

drum cannot be turned by hand

2. Back off adjuster screw 8 notches. Drum

should turn freely without drag

3. Repeat procedure at each wheel

PV444 -445 self-adjusting brakes are used. No

adjustment normally required

Bleeding sequence: LF, RF, LR, RR