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SERVICE INFORMATION	2-1
TROUBLESHOOTING	2-1
ENGINE OIL LEVEL CHECK	2-2
ENGINE OIL CHANGE	2-2
ENGINE OIL FILTER	2-3
LUBRICATION POINTS	2-4

## SERVICE INFORMATION

### GENERAL INSTRUCTIONS

- This section describes inspection and replacement of engine oil, oil filter, cleaning of the oil filter screen and the strainer bolt.
- Oil pump service is described in Section 8.

### SPECIFICATIONS

Oil capacity 2.5 liter (2.6 US qt, 2.2 Imp qt) at engine assembly  
2.0 liter (2.1 US qt, 1.7 Imp qt) at oil change

Oil Recommendation Use HONDA 4-STROKE OIL or equivalent.  
API SERVICE CLASSIFICATION: SE or SF  
VISCOSITY:  
SAE 10W-40

Other viscosities shown in the chart may be used when the average temperature in your riding area is within the indicated range.

Oil pump delivery  
(Pump A) 7.5 lit (7.9 US qt)/min at 5,300 rpm  
(Pump B) 10.0 lit (10.6 US qt)/min at 5,300 rpm

### TORQUE VALUE

Downtube drain plug 25-32 N·m (2.5-3.2 kg-m, 18-23 ft-lb)  
Crankcase drain plug 30-40 N·m (3.0-4.0 kg-m, 22-29 ft-lb)  
Strainer nut 35-45 N·m (3.5-4.5 kg-m, 25-32 ft-lb)

## TROUBLESHOOTING

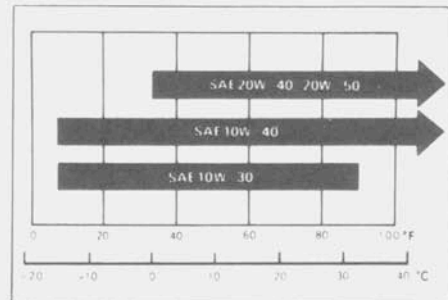
#### Oil Level Too Low

1. Normal oil consumption
2. External oil leaks
3. Worn piston rings

#### Oil Contamination

1. Oil not changed often enough
2. Faulty head gasket

OIL VISCOSITIES



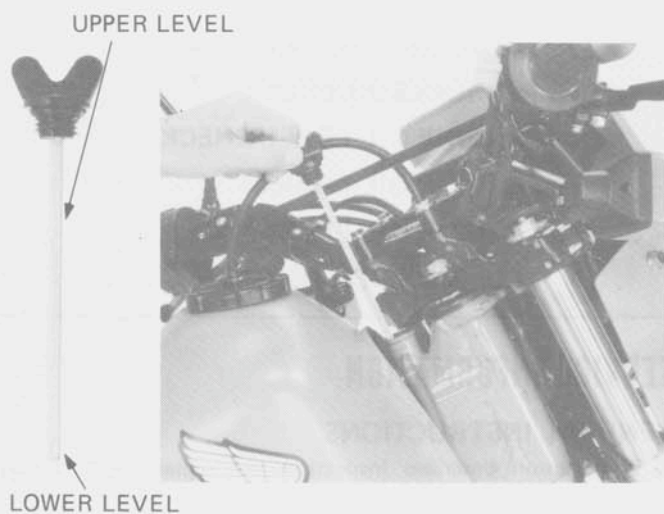


## ENGINE OIL LEVEL CHECK

Support the motorcycle upright on level ground. Start the engine and let it idle for a few minutes. Keep the motorcycle upright, stop the engine and remove the oil filler cap/dipstick.

Wipe the dipstick clean, and reinsert the dipstick without screwing it in. The oil level should be between the upper and lower level marks on the dipstick.

If the level is below the lower level mark on the dipstick, fill to the upper level mark with the recommended oil.



## ENGINE OIL CHANGE

### NOTE

Change the engine oil with the engine warm and the motorcycle on its side stand to assure complete and rapid draining.

Remove the oil filler cap/dipstick and skid plate. Remove the down tube drain plug and the crankcase drain plug.

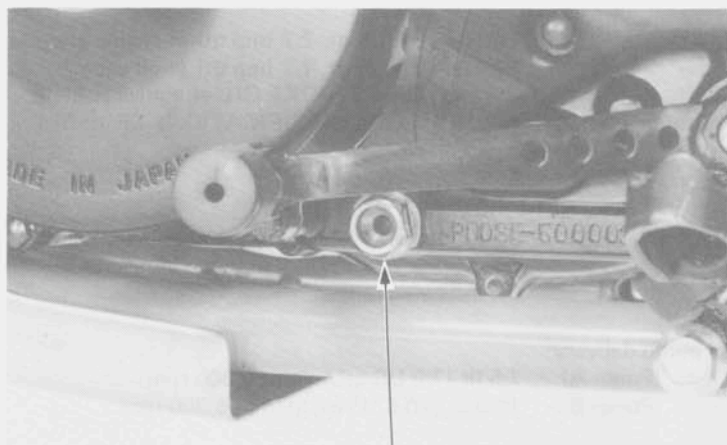
After the oil has drained, check that the drain plug sealing washers are in good condition, then install the plugs.

### Crankcase drain plug torque:

30–40 N·m (3.0–4.0 kg-m, 22–29 ft-lb)

### Downtube drain plug torque:

25–32 N·m (2.5–3.2 kg-m, 18–23 ft-lb)



DRAIN PLUG



DOWNTUBE DRAIN PLUG



**NOTE**

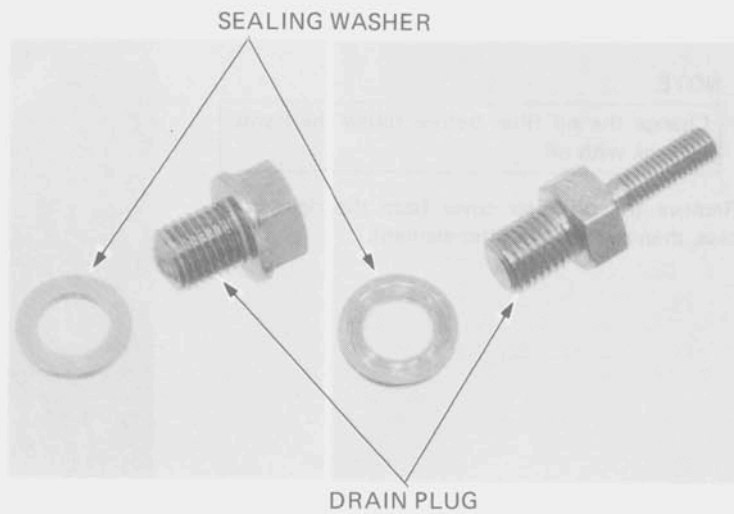
- If maintenance is also scheduled for the oil filter screen and the strainer nut (page 2-4 and 2-5) do these before filling the frame oil tank with oil.
- The engine takes about 2 liters (2.1 Qts) at oil change. But since only a portion of that oil is held in the frame's oil tank, you cannot add the full amount initially.

Pour 1.5 liter of the specified oil (page 2-1) into the oil tank fast.

Install the oil filler cap/dipstick.

Start the engine and let it idle for a few minutes. Stop the engine and add the specified oil until it reaches the upper level mark with the motorcycle upright.

Reinstall the skid plate and the filler cap/dipstick. Check for oil leaks.

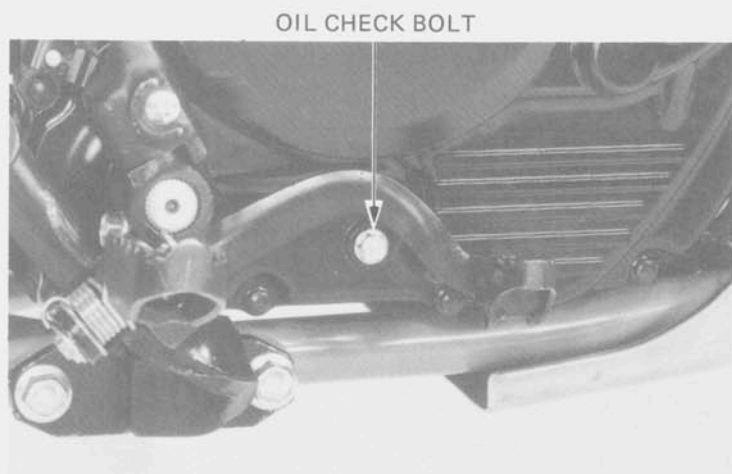


**CRANKCASE OIL CHECK BOLT**

**NOTE**

The crankcase oil level check bolt is useful when checking the lubrication system; the oil pump adjusts the oil level so that the crankcase is always kept at the proper level. If this check shows otherwise, some portion of the lubrication system is not working properly.

The crankcase oil level is correct if the oil is not flush with the bottom of the check bolt hole.



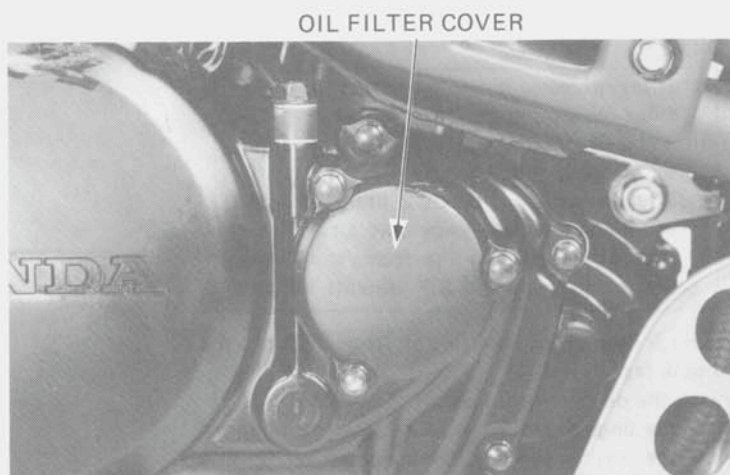


## ENGINE OIL FILTER

**NOTE**

Change the oil filter before filling the frame oil tank with oil.

Remove the oil filter cover from the right crankcase, then remove the filter element.

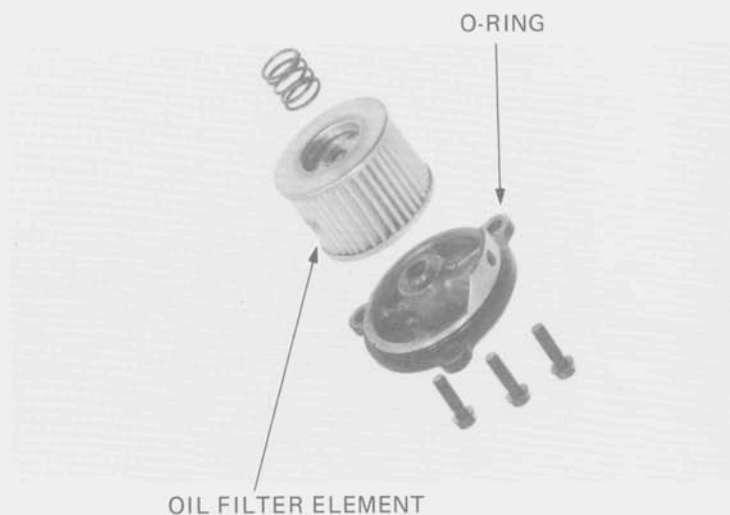


Check that the O-ring on the oil filter cover is in good condition.

Insert a new oil filter element.

Install the oil filter cover and tighten its screw.

**TORQUE:** 8–10 N·m  
(0.8–1.0 kg·m, 5–7 ft·lb)



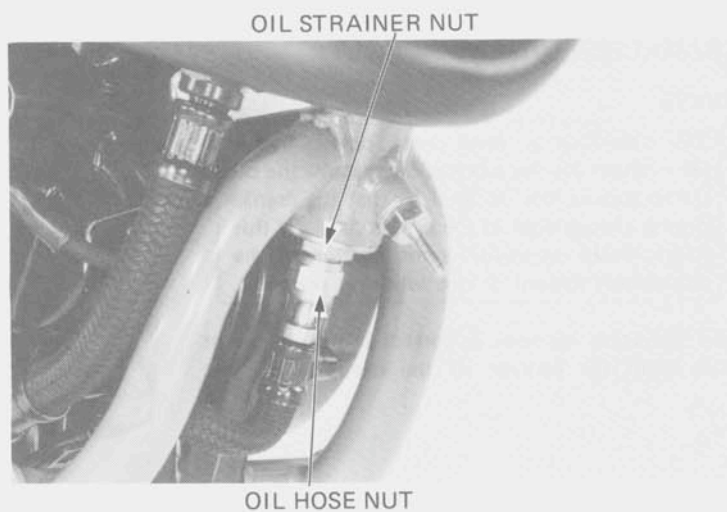
## OIL STRAINER NUT

**NOTE**

Clean the screen on the oil strainer nut before filling the frame oil tank with oil.

Disconnect the oil hose nut from the oil strainer nut.

Remove the oil strainer nut.





Clean the strainer with clean gasoline and blow dry with compressed air.

### NOTE

Remove remaining sediments from the strainer through the oil hole.

Check O-ring is in good condition.  
Reinstall the oil strainer nut and tighten.

**TORQUE: 35–45 N·m**  
(3.5–4.5 kg·m, 25–32 ft·lb)

Reconnect the oil hose and tighten its nut.

**TORQUE: 35–45 N·m**  
(3.5–4.5 kg·m, 25–32 ft·lb)

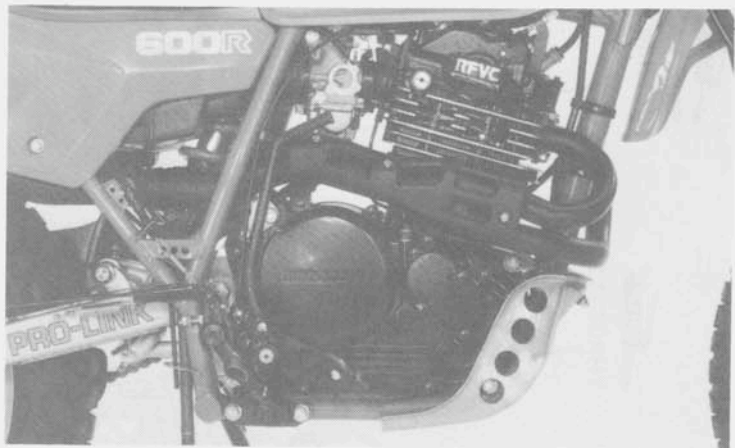


### CRANKCASE OIL SCREEN (On the right crankcase)

### NOTE

Clean the oil filter screen whenever the right crankcase has been removed.

Clean the oil filter whenever the right crankcase cover is removed.

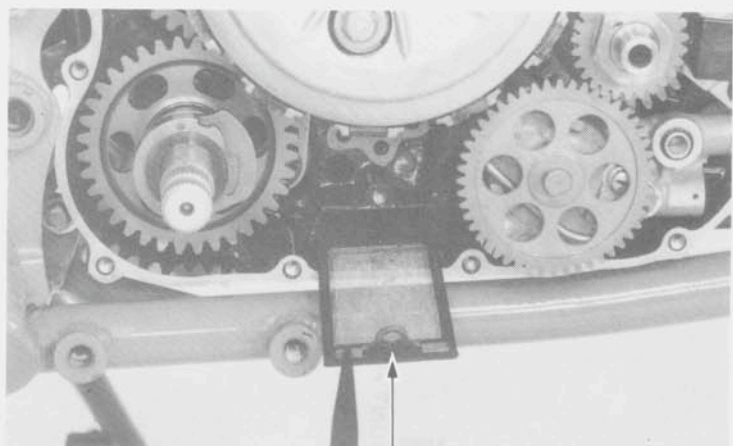


Remove the oil screen and clean it.  
Install the oil screen.

Check that the right crankcase cover gasket is in good condition.  
Install the removed parts in the reverse order of disassembly.

Adjust the brake pedal (Page 3-14), clutch lever (Page 3-18) and starter decompressor (Page 3-8).

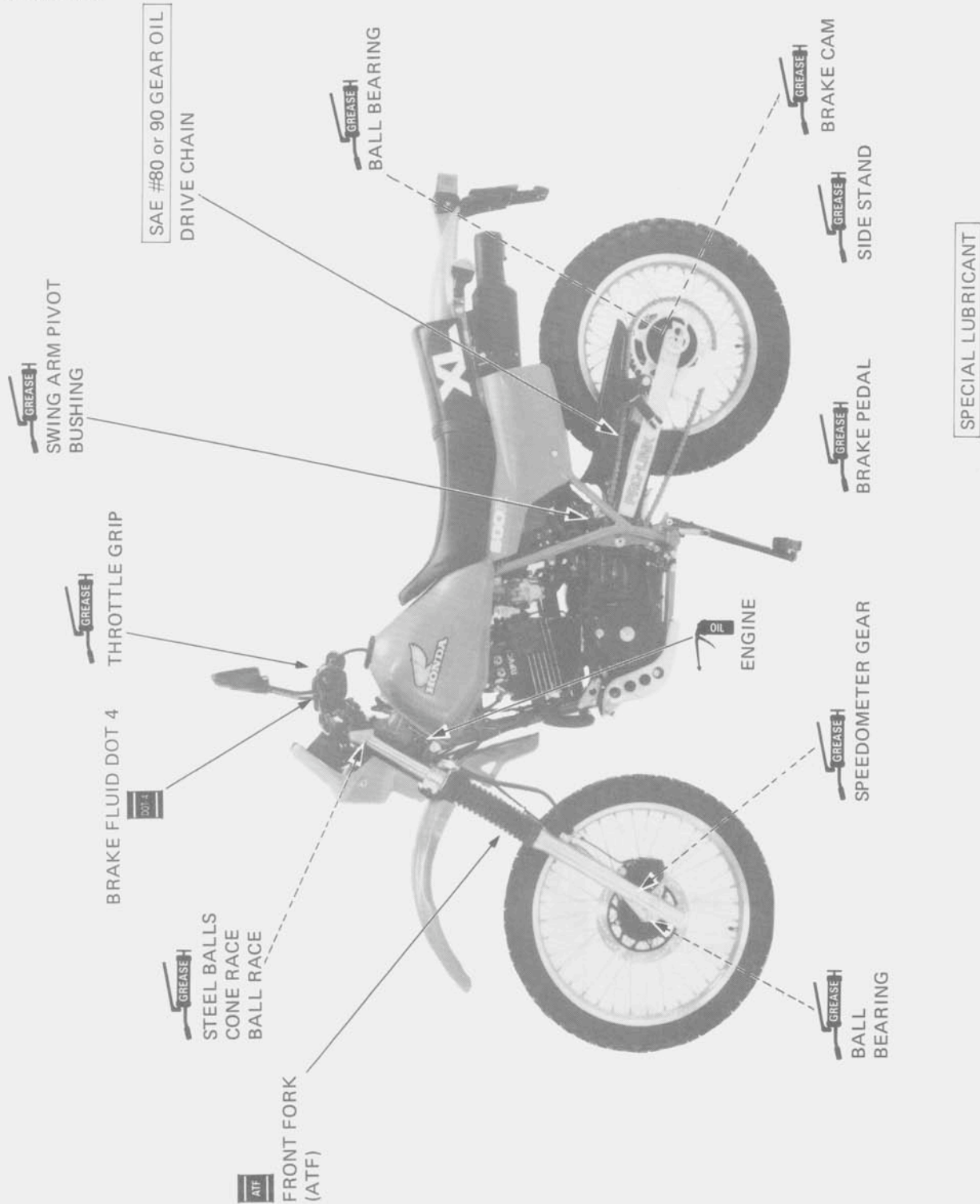
Fill the crankcase with the recommended oil (Page 2-2).





## LUBRICATION POINTS

Use general purpose grease where a specification is not given.  
Apply oil or grease to sliding surfaces and cables not shown here.



SPECIAL LUBRICANT

- SHOCK ABSORBER UPPER MOUNT BUSHINGS (Page 13-12)
- SUSPENSION LINKAGE PIVOTS (Page 13-12)