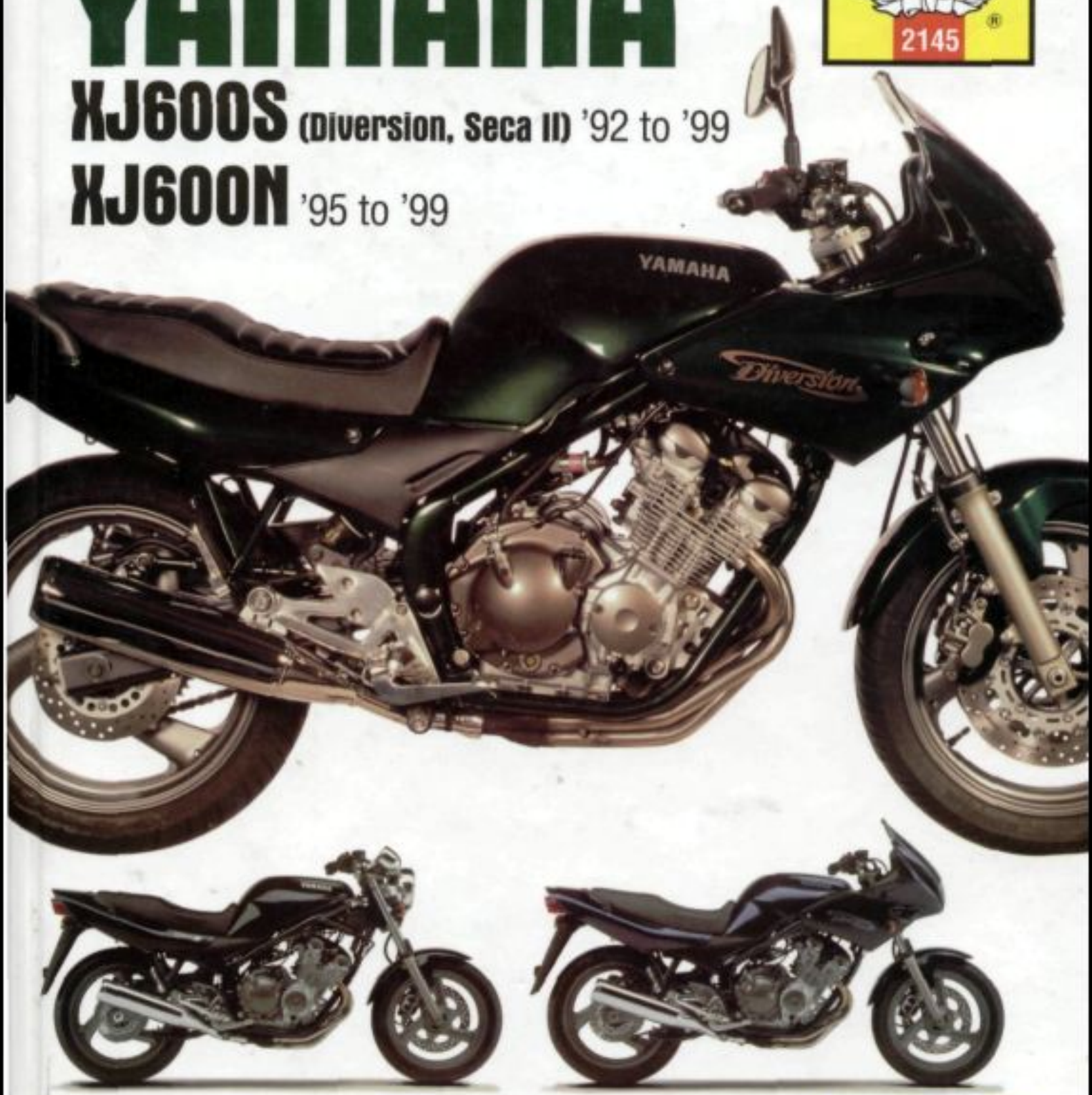
1992-1999 Yamaha XJ600S(N) Motocycle Service Repair Workshop Manual

HAYNES SERVICE & REPAIR MANUAL

YAMAHA

XJ600S (Diversion, Seca II) '92 to '99

XJ600N '95 to '99



"Haynes Manuals just cannot be beaten"
Motor Cycle News

- Model history
- Pre-ride checks
- Wiring diagrams
- Tools and workshop tips

IN FULL COLOUR

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LIVING WITH YOUR YAMAHA XJ

Introduction

Daily (pre-ride) checks

MAINTENANCE

Routine maintenance and servicing

21.3 Remove the plastic spacer and check the condition of the seal (arrowed)

21.5a Pull the change lever away from the shift cam and slide the shift shaft (arrowed) out of the crankcase . . .

21.5b . . . and remove the washe

21 External shift mechanism – removal, inspection and installation

Removal

1 Remove the shift pedal and linkage (see Section 20).
2 Remove the engine sprocket cover (see Chapter 5).
3 Remove the plastic spacer from the shift shaft **(see illustration).**
4 Remove the clutch (see Section 18).
5 Pull the change lever away from the shift cam and slide the shift shaft and washer out of the crankcase **(see illustrations).**

Inspection

6 Inspect the shift shaft return springs. If they are worn or damaged, replace them.
7 Check the change shaft for bends and damage to the splines. If the shaft is bent, you can attempt to straighten it, but if the splines are damaged it will have to be replaced. Inspect the pawl and springs on the change shaft and replace the shaft if they're worn or damaged.
8 Check the condition of the stopper lever and spring. Replace the stopper lever if it's worn where it contacts the shift cam. Replace the spring if it's distorted.
9 Inspect the straight detent pins on the end of the shift cam. If they're worn or damaged, you'll have to disassemble the crankcase to replace the shift cam.
10 Check the condition of the seal on the right side of the engine case. If it has been leaking, pry it out **(see illustration 21.3).** It's a good idea to replace it regardless of its condition, since gaining access to it requires a fair amount of work. Install a new seal with its closed side facing out. It should be possible to install the seal with thumb pressure, but if necessary, drive it in with a socket or piece of tubing the same diameter as the seal.

Installation

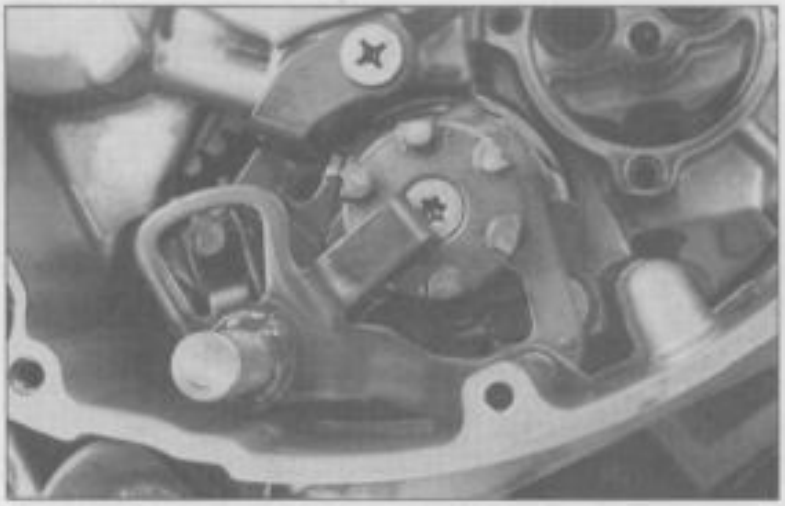
11 Remove the circlip and flat washer from the end of the shift shaft. Make sure the large washer is still on the shaft, positioned against the change lever.
12 Apply high-temperature grease to the lip of the seal. Wrap the splines of the shift shaft with electrical tape, so the splines won't damage the seal as the shaft is installed.
13 Slide the shaft into the crankcase. Engage the pawls with the pins on the shift cam and position the return spring over its guide bar **(see illustration).**
14 The remainder of installation is the r of the removal steps.
15 Refill the engine oil (see Chapter *Daily (pre-ride) checks*).

22 Crankcase – disassembly and reassembly

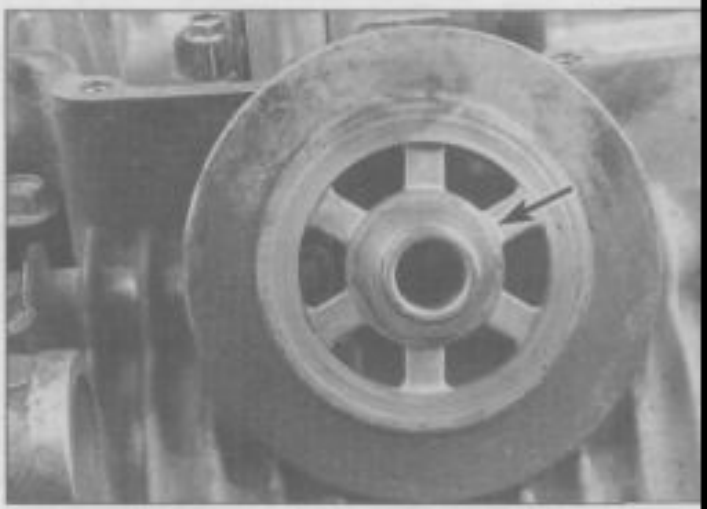
1 To examine and repair or replac crankshaft, starter chain and camshaft connecting rods, bearings, transm components, starter idler gears or motor clutch, the crankcase mu separated into two parts.

Disassembly

2 If the crankcase is being separa remove the crankshaft, remove the c head, cylinder block and pistons (see S 10, 13 and 14). If you're only separati crankcase halves to disassembl transmission shafts or remove the i shift linkage, there's no need to remo top-end components. In all cases, remo clutch (see Section 18).
3 Remove the oil pan and remove pressure relief valves from the crankca Section 16). Unbolt the oil filter adap access to one of the case bolts **(see illust**



21.13 The shift mechanism should look like this when it's assembled



22.3 Remove the oil filter adapter bolt (arrowed) – you'll fin of the crankcase bolts behind the adapter