

## DIAGNOSIS

Trouble	Probable Causes	Remedy
Difficult gear shifting	<ol style="list-style-type: none"> <li>1. Improper clutch disengagement</li> <li>2. Damage gear or foreign object lodged in the gear</li> <li>3. Gear shift fork inoperative</li> <li>4. Improper operation of the gear shift drum stopper and change pedal</li> <li>5. Mainshaft and countershaft of alignment</li> <li>6. High oil viscosity</li> </ol>	<p>Adjust the clutch (Refer to page 183).</p> <p>Replace the defective parts.</p> <p>Repair or replace.</p> <p>Repair or replace.</p> <p>Repair or replace.</p>
Excessive high gear noise	<ol style="list-style-type: none"> <li>1. Excessive gear backlash</li> <li>2. Worn main and countershaft bearing</li> </ol>	<p>Repair or replace.</p> <p>Repair or replace.</p>
Gear slip out	<ol style="list-style-type: none"> <li>1. Worn fingers on gear shift fork</li> <li>2. Worn gear dog hole</li> <li>3. Worn spline</li> </ol>	<p>Replace.</p> <p>Replace.</p> <p>Replace.</p>

## 5-2 REPAIRING PROCEDURE

## a. Disassembly

1. Disassemble the cylinder head, cylinder and cam chain tensioner in accordance with section 3-3 b on page 32~35.
2. Disassemble the crankcase in accordance with section 3-6 b on page 46~47.
3. Raise the transmission mainshaft and remove the primary sprocket and then remove the mainshaft gear assembly from the upper crankcase. (Fig. 5-3)
4. Remove the final shaft oil guide and the final shaft assembly from the upper crankcase. (Fig. 5-4).

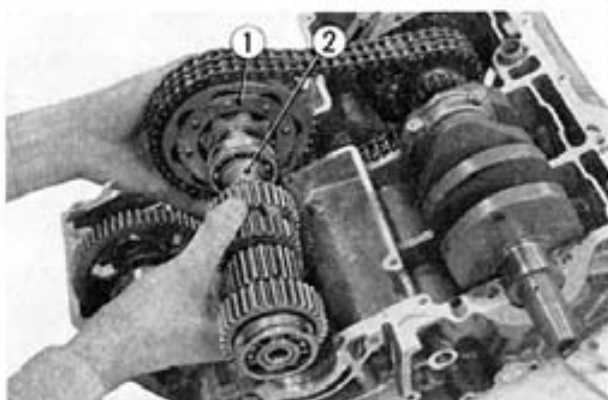


Fig. 5-3 ① Primary sprocket  
② Transmission mainshaft

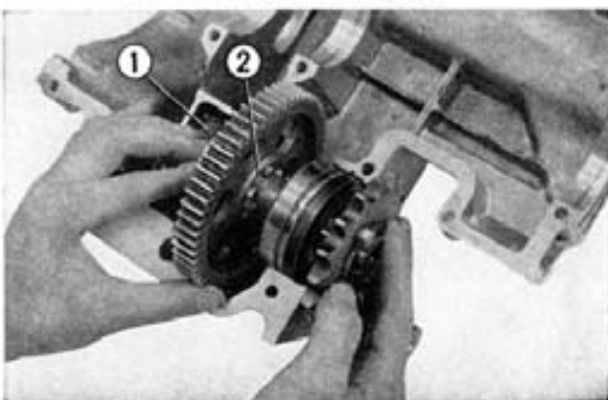


Fig. 5-4 ① Final shaft oil guide  
② Final shaft assembly