

• High speed range (Fig. 3.114)

In the high speed range, the selector slides the splined posi-torque high gear ③ to lock with the free rotating sprocket drive gear unit ④. The power from the counter shaft ① is transmitted from the posi-torque high gear directly to the free rotating sprocket drive gear unit ④ to drive the sprocket at the same speed as the counter shaft.

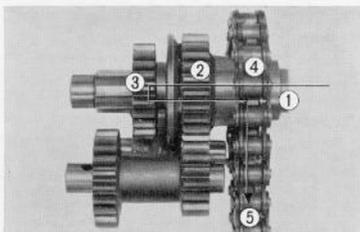


Fig. 3.114 High speed range

B. Disassembly

1. Remove the four, 6 mm screws and take off the posi-torque cover.
2. Remove the posi-torque low gear and the counter gear assembly together with the counter shaft.
3. To disassemble the posi-torque high gear, remove the 20 mm circlip and the splined washer.
4. The left crankcase cover must be removed and the chain unhooked from the sprocket to disassemble the drive sprocket.

3.16 CARBURETOR

A. Construction

(1)

The air taken in from the air cleaner enters the inlet side (1) of the carburetor as a main air flow, passes under the throttle valve (6) and then leave the carburetor through passage (8) to be taken into the engine. This flow of air creates a negative pressure around the needle jet (4) and causes the fuel in the float chamber (2) to be drawn up through the main jet (10), the needle jet holder (3) where it is mixed with the air that is taken in at air jet (5) and enters through the air bleed holes (9) located around the needle jet holder (3), and is then discharged between the needle jet (4) and jet needle (7) located directly below the throttle valve (6). The discharged fuel is mixed with the main air flow and atomized before being taken into the engine.

In addition, to regulate the fuel mixture at small throttle opening, the air taken in from carburetor inlet (1) passes by the opening (12) of the air screw (11), enters the slow jet (13) by the way of the bleed hole, and then is mixed with the fuel discharged from the hole located under the throttle valve to produce a rich fuel mixture. This discharged fuel mixture is mixed with the main inlet air flow and taken into the engine. The fuel mixture adjust-



Fig. 3.115 Carburetor