THE IRON HORSE

TROUBLE SHOOTING ON THE VARIATOR

Problem A: The machine does not stand still when idling and it is also hard to shift gears.

Cause 1: The spring 531 00 01-50 in the primary variator is broken. If both the springs are broken, it will be impossible for the machine to stand still when idling.

Solution 1: Mount a new spring.

Cause 2: The bronze bushing 531 00 01-52 moves freely or is missing.

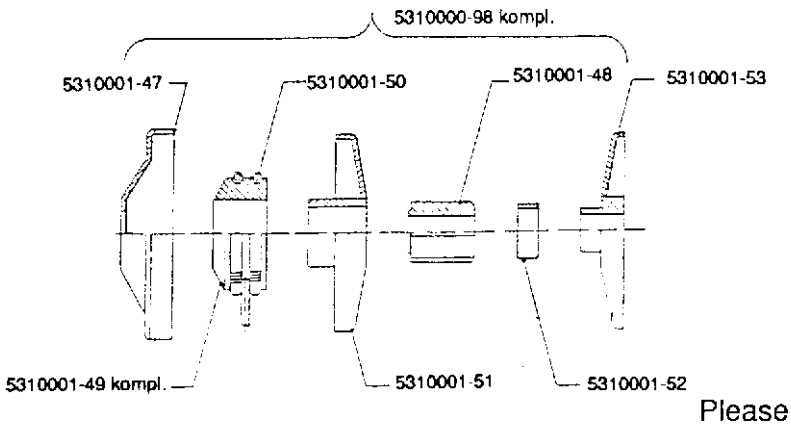
Solution 2: Check that the bushing moves freely and lubricate with thin oil. Also check if there is a rise over the keyway on Ref. No. 531 00 01-53, because this can be the reason why the bushing does not move freely. If the bushing is missing, mount a new one.

Cause 3: The primary variator Ref. No. 531 00 00-98 is not sufficiently lubricated. The moveable part Ref. No. 531 00 01-51 slides poorly on the driver Ref. No. 531 00 01-48 and does not return completely, when the engine is idling.

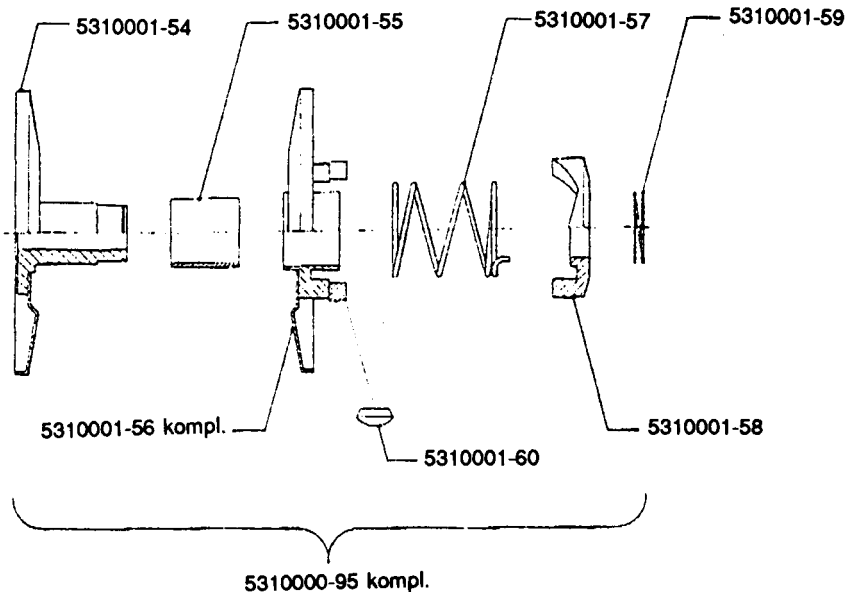
Solution 3: Remove the primary variator Ref. No. 531 00 00-98 and lubricate the driver Ref. No. 531 00 01-48, which the moveable disc Ref. No. 531 00 01-51 is sliding on. Also carefully lubricate the inside of the variator cup Ref. No. 531 00 01-47.

Problem B: The machine does not gear down when the throttle is released and the rpm is reduced.

Cause/Solution: The same cause/solution as 1 and 3 under problem A.



Please turn over!



Problem C: The machine “gears-up” also at high load and the engine cannot manage to pull the machine.

Cause: The locking ring Ref. No. 531 00 01-59 has come loose from its groove or is broken. The locking ring is placed on the secondary variator, against the gear box.

Solution 1: Mount a new locking ring Ref. No. 531 00 01-59. Check that the sliding cleats Ref. No. 531 00 01-60 are placed correctly. The spring Ref. No. 531 00 01-57 should be mounted in hole no. 1 in the support Ref. No. 531 00 01-58.

Solution 2: The groove for the locking ring in the Ref. No. 531 00 01-54 is broken. Change Ref. No. 531 00 01-54 to a new one.

It is very important that all moveable parts in both the primary and the secondary variator, are lubricated every 20th working hour. The lubrication should be done by using graphite based grease.

Problem D: The machine has a poor pulling force.

Cause: The primary variator is lubricated too much. This can cause that grease gets onto the variator belt. The machine will then have a poor pulling force.

Solution: Excessive grease is wiped off and the belt is cleaned with a suitable solvent.