

2) Special checks

2.1) Checking the propeller gearbox/engine.

Check the engine after ground contact or unintended propeller stoppage.

2.1.1) Propeller gearbox with integrated overload clutch

- Inspect the engine for damage. If any damage is detected, inspect, repair or overhaul the whole engine in accordance with the BRP-Rotax instructions for continued airworthiness.

Inspect all systems for correct functioning.

- Inspect additional equipment (external alternator, governor, ignition unit, coolant and oil hoses) for damage.
- Observe the directives of the aircraft manufacturer.
- Remove the gearbox and roller bearing of the propeller shaft.

The whole gearbox must be inspected, repaired or overhauled in accordance with the BRP-Rotax instructions for continued airworthiness.

Carry out detailed inspection of all gearbox components.

NDT for cracks on gearbox housing, propeller shaft and gear set.

- Inspect drive for governor and vacuum pump (if fitted).
- Observe the manufacturer's instructions for the governor.
- Inspect the crankshaft on the power take off side for out-of-roundness. See 72-00-00, sec. 3.9.15 of the Heavy Maintenance Manual, part no. 899603.