

it is only able to install the ring around an augmented piston.

Section 14. Running-in of engine after replacing the cylinder and piston assembly parts

1. Before starting of the engine, fill clean aviation oil of 40-50 g at 40-60°C temperature into the cylinder, in which the cylinder piston assembly parts have been renewed.

2. Start engine according to the second section of the second chapter.

3. The running-in of engine proceeds upon the following table:

Order number	Test content	Operations		Note
		Rotating speed (rpm)	Time (min.)	
1	start	700-900	3	1. During the running-in of engine, must set the propeller in lower pitch position. 2. During the running-in of engine, the temperature of cylinder head should not exceed 210°C, the inlet temperature of oil should be 50-65°C.
2	running-in	1000-1200	10	
	running-in	1400	10	
	running-in	1600	10	
3	stop	600-700		

4. After running-in of engine, check the fireproof-wall, oil pump, and oil filter in oil sump. When the oil filter is clean, proceed to complete test according to the second section of the second chapter for inspecting the engine's operation.

5. After test, check again the oil filter, and if it is clean, it is possible to continue to employ the engine.

6. When have replaced more than four sets of piston ring or more than four pistons and cylinders, the time of running-in of the engine should be increased twice.

Section 15. Replacement of oil sump

1. Wipe clean the mating surface between the oil sump and the case.

2. Set a flange gasket of the rear part of oil sump on fixed studs of oil sump.

3. Put the oil sump on the studs, set washers, uniformly tighten two rear fixing nuts.

4. Measure the clearance between the oil sump and the front section flange of the master case with feeler, clearance should be 1.15-1.85 mm. The clearance may be secured through to select the thickness of flange gasket of oil sump rear part (the gasket thickness may be 1.35-2.15 mm).

5. Measure the thickness of front gasket of the oil sump, its thickness should be more than that the clearance between oil sump and front section of master case within 0.2-0.3 mm.

6. Unscrew nuts, take off the washers, oil sump and rear flange gasket, then coat a yellow sealing compound on the selected front and rear flange gaskets, set it on case studs.

7. Mount the oil sump. Set four washers and four lock washers on fixing studs, uniformly tighten the four nuts.