

Turbo Charger-specific Maintenance

The turbo charger unit requires no specific maintenance beyond the oil change interval recommended below for the AeroVee engine.

Minimum Maintenance Interval

1 Hour Accumulated

___ Change the oil and clean the oil filter.

5 Hours Accumulated

___ Change the oil.

___ Adjust the valves (cold engine). See page 29.

10 Hours Accumulated

___ Change the oil.

___ Torque the heads to 18 foot pounds. Do NOT loosen the nuts prior to torquing them. See page 22 for proper torque sequence. The rocker shaft assemblies must be removed to torque the heads.

___ Adjust the valves (cold engine). See page 29. Valves must be adjusted after torquing the heads.

___ Check all fasteners for tightness and security.

25 Hours Accumulated

___ Change the oil and wash the oil screen.

___ Torque the heads to 18 foot pounds. Do NOT loosen the nuts prior to torquing them. See page 22 for proper torque sequence. The rocker shaft assemblies must be removed to torque the heads.

___ Adjust the valves (cold engine). See page 29. Valves must be adjusted after torquing the heads.

Every 25 Hours

___ Change the oil.

Every 50 Hours

___ Change the oil and wash the oil screen.

___ Adjust the valves (cold engine). See page 29.

___ Inspect and/or replace air filter.

On Annual Inspection

___ Change the oil and wash the oil screen.

___ Torque the heads to 18 foot pounds. Do NOT loosen the nuts prior to torquing them. See page 22 for proper torque sequence. The rocker shaft assemblies must be removed to torque the heads.

___ Adjust the valves (cold engine). See page 29. Valves must be adjusted after torquing the heads.

___ Inspect and/or replace air filter.

___ Inspect and/or replace spark plugs.

___ Check all fasteners for tightness and security.

___ Check all hoses for condition, tightness and security.

___ Check all wiring for condition and security.

___ Perform a leak-down test of each cylinder. 80 psi is normal, anything below 60, or a large deviation between individual cylinders, requires additional investigation.

When to Rebuild Your AeroVee

Experimental engines, such as the AeroVee, have no TBO. As the owner/operator of an AeroVee engine you decide when it will be rebuilt and to what extent.

Signs an engine needs some degree of rebuilding include low compression, loss of power, increased oil usage, and low oil pressure.

Torque Values

Item	Socket	Ft-lbs.....	In-lbs.
Large Case Nuts	19mm	25	300
Cam Case Nuts.....	10	10	120
Small Case Nuts.....	13mm	14	168
Cylinder Head Nuts.....	15mm	18	216
Rocker Arm Nuts	13mm	14	168
Prop Hub Nuts.....	30mm	70-80.....	840-960
Flywheel Gland Nut	36mm	227	2724
Connecting Rod Nuts.....	14mm	30	360
Valve Cover Bolts	13mm	10	120
Oil Pump Cover	13mm	14	168
Oil Pan Cover Nuts	10mm	5	60
Rear Unit Mount Bolts.....	17mm	25	300
Prop Bolts/Nuts*	1/2"	11	132
Spark Plugs	11/16"	12	144

*Refer to the propeller manufacturer's torque specification. In the absence of a manufacturer specification, use these values.