

Trouble	Probable causes	Remedy
Low power and engine running uneven	• Restriction in exhaust system. • Improper ignition timing.	• Remove restriction. • Check magnetos for timing and synchronization.
Engine fails to develop full power	• Throttle lever out of adjustment. • Leak in induction system. • Restriction in carburetor airscoop. • Improper fuel. • Propeller governor out of adjustment. • Faulty ignition.	• Adjust throttle lever. • Tighten all connections and replace defective parts. • Examine airscoop and remove restriction. • Fill tank with recommended fuel. • Adjust governor. • Tighten all connections. Check system. Check ignition timing.
Rough running engine	• Cracked engine mount(s). • Unbalanced propeller. • Defective mounting bushings. • Lead deposit on spark plugs. • Primer unlocked.	• Repair or replace engine mount(s). • Remove propeller and have it checked for balance. • Install new mounting bushings. • Clean or replace plugs. • Lock primer.
Low oil pressure	• Insufficient oil. • Dirty oil strainers. • Defective pressure gauge. • Air lock or dirt in relief valve. • Leak in suction line or pressure line. • High oil temperature. • Stoppage in oil pump intake passage. • Worn or scored bearings.	• Check oil supply. • Remove and clean oil strainers. • Replace gauge. • Remove and clean oil pressure relief valve. • Check gasket between accessory housing crankcase. • See "high oil temperature" in trouble column. • Check line for obstruction. Clean suction strainer. • Overhaul engine.
High oil temperature	• Insufficient air cooling. • Insufficient oil supply. • Clogged oil lines or strainers. • Failing or failed bearings. • Defective thermostats. • Defective temperature gauge. • Excessive blow-by.	• Check air inlet and outlet for deformation or obstruction. • Fill oil tank to proper level. • Remove and clean oil line or strainers. • Examine sump for metal particles and, if found, overhaul engine. • Replace thermostats. • Usually caused by weak or stuck rings. • Overhaul engine.
Excessive oil consumption	• Failing or failed bearing. • Worn or broken piston rings. • Incorrect installation of piston rings. • External oil leakage. • Leakage through engine fuel pump vent. • Engine breather or vacuum pump breather.	• Check sump for metal particles and if found, an overhaul of engine is indicated. • Install new rings. • Install new rings. • Check engine carefully for leaking gaskets or O-rings. • Replace fuel pump seal. • Check engine, and overhaul or replace vacuum pump.

Figure 10-52. *Troubleshooting opposed engines (continued).*