



ADyI

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ADVANCED DYNAMO 500 SERIES (KUBOTA ENGINE) GENERATOR MAINTENANCE GUIDE

- You **MUST** register your warranty with Advanced Dynamo within 30 days of receipt to receive updates, recall announcements and service bulletins
- Check oil and coolant levels every week. Test fans with fan test switch.
- **Verify that the oil fill cap is fully secured. Failure to secure oil filler cap could lead to loss of oil and genset shut-down!**
- Monitor the hour meter, change oil and filter based on maintenance schedule below:
 - **Change oil after initial break-in period of 50 hours.** Do not exceed 50 hours for break-in oil change.
 - Thereafter change oil every 400 hours per schedule* (see Oil Change Requirements Bulletin).
- The start/stop switch activates a latching relay. The 12VDC main genset switch (Green light) must be **UP** to start/stop, remote & diagnostic functions. **CENTER** for off, **DOWN** for start/stop in no-power stand-by mode.
- Kubota engine speed is 1800 RPM for 60 Hz models (1500 RPM for 50 Hz models).
- Maximum ambient (outside) temperature;
 - Standard model: 130°F / 54.4 °C.
 - Oil cooler equipped model: 135°F / 57.2 °C.
- Nominal engine operating temperature: 180-200°F / 82-93 °C.
- Nominal oil pressure: 50 PSI. Volts: 12.6

⚠ ! Caution ! : Cooling Fans may start automatically! ⚠

SCHEDULE OF MAINTENANCE

(NOTE: 5,000 HOUR SERVICE REQUIRES REMOVAL AND REPLACEMENT OF GENERATOR)

- Change oil every 400 hours for Gas or Diesel, *500 hours for LPG (see Oil Change Requirements Bulletin).
- Clean air filter every 1,000 hours.
- Replace air filter every 2,000 hours.
- Change antifreeze coolant every 12 months with 50/50 antifreeze.
- Replace platinum spark plugs and Bosch exhaust manifold O₂ sensor every 5,000 hours.
- Replace timing and water pump belts/hoses at 5,000 hours.
- Verify Catalytic Converter functionality, replace if required & register SN# with Advanced Dynamo (US EPA requirement) at 5,000 hours.
- Overhaul at 10,000 hours (equivalent to 600,000 freeway miles), or exchange for rebuilt generator with ADyI.

REPLACEMENT PARTS

- Full synthetic oil 10w-30 Mobil One Extended Duty, or equivalent (5 quarts with filter change).
 - 5/30 for cold weather
- Oil filter: NAPA #1515, FRAM #AUTHM8A, or equivalent
- Air filter element: Donaldson # P822-686 or NAPA #6449
- Platinum spark plugs: NAPA # NGK 96416 or Mfg.# NKG IFR6F8DN
- Water pump/alternator belt: NBH #257380 or Kubota #2380
- Radiator Hoses: upper hose NAPA #9275; lower hose: NAPA #8379
- Cooling Fans: NAPA #RPS 17028
- Starter: NAPA #244-6860
- DC Alternator: Desco # 16678-64014