



ADyI

ADVANCED DYNAMO INDUSTRIES, INC.

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ADVANCED DYNAMO 416 SERIES MAINTENANCE GUIDE

12.5 KW 50/50 Amp, 15 KW 60/60 Amp, 17 KW 70/70 Amp

- Register your warranty with Advanced Dynamo to receive updates and service bulletins
- Check oil and coolant levels every week. Test fans with test switch.
- **Seat and secure dip stick: 2 ½ full turns to secure. Failure to secure dip stick 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:**
 - Thereafter change oil every 300 hours with full synthetic oil, Mobil 1 Extended Duty, or equivalent. Reset 2nd hour meter with each oil change.
- 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.
- Tachometer 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

- Change oil every 300 hours with full synthetic oil, **Mobil 1 Extended Duty**, or equivalent. Reset 2nd hour meter.
- 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 every 2,000 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 with ADyI.

REPLACEMENT PARTS

- Use full synthetic oil 10/30 Mobil 1 Extended Duty, or equivalent (5 quart with filter change). 5/30 for cold weather, **AMSOIL 20/50 ARO for hot weather.**
- Oil filter: NAPA #1515, FRAM #AUTHM8A, or equivalent.
- Air filter element: Donaldson # P822-686 or NAPA #6449.
- Platinum spark plugs: AutoLite APP-3924 or NGK BKR5EGP(7090).
- Water pump/alternator belt: NAPA # 25-040405 or Zenith # 4PK845.
- Timing belt options: NAPA #250282 or Hyundai / Zenith # 24312 26001.
- Radiator hoses: upper hose NAPA # 8978; lower hose: NAPA # 9158.
- Replacement cooling fans: SPAL # 30102044.
- Rebuilt Starter: NAPA #177-09
- DC Alternator: NAPA # 213-95-16